



Reaxys

Reference Guide

May 2025



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0. Welcome to Reaxys

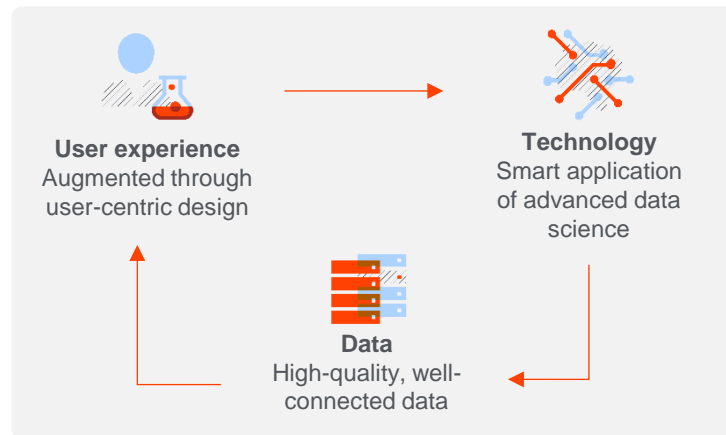
Welcome to Reaxys

Accelerate R&D with AI-driven chemistry, trusted data and intelligent tools.

Reaxys helps scientists and innovators accelerate discovery by combining over a billion chemistry data points with advanced AI. Quickly explore substances, reactions, bioactivity insights, patents, and retrosynthesis to drive faster decision-making across drug discovery, chemical R&D, and academia.

Unlock faster insights and impact across sectors:

- **Industry:** Pharmaceutical, CROs, CDMOs, Chemical and Materials Science, Agrochemicals, Consultancy, IT, Software, Banking and Finance, Manufacturing, among others
- **Academic and Government:** Leading universities, government, research labs and more



[Sign in](#) or register



1. Sign in or log in

Sign in or log in

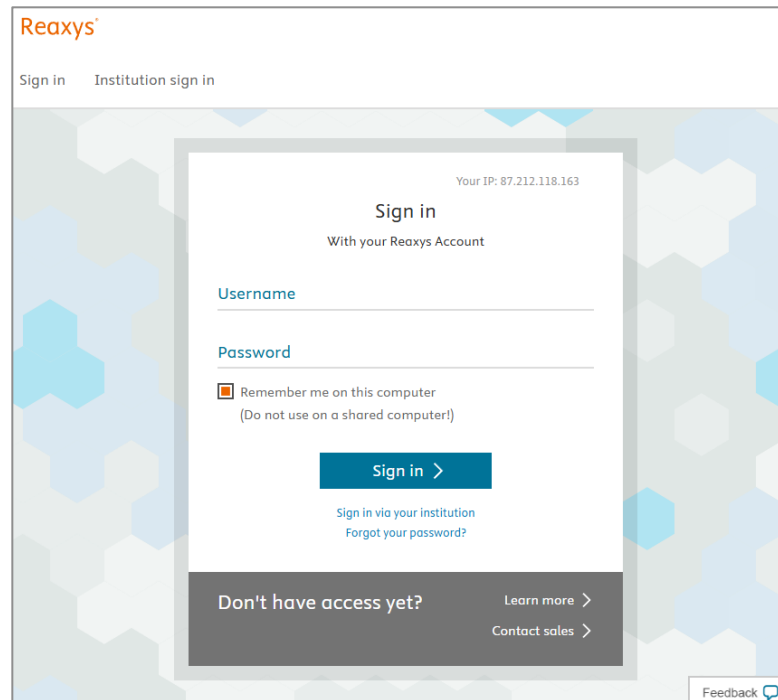
Sign in or log in to gain access to the most comprehensive datasets and advanced AI-powered tools.

How to register

- Click Sign In and then Register. Fill out your details.
- Agree to the Terms and click Register.
- To register with Institution Registration ID, visit the [Registration ID site](#), enter your details to link account.

Registered users can:

- Save searches and set alerts to stay updated on research developments.
- Export results for integration into reports or slides.
- Extend session time to 6h (vs. 30m guests).
- Click the help icon inside [Reaxys.com](#) to access Resource Center for Knowledge, Learning, and Support.



The image shows the Reaxys sign-in interface. At the top, the Reaxys logo is on the left, and links for 'Sign in' and 'Institution sign in' are on the right. The main content area has a light blue and white hexagonal pattern background. A central white box contains the 'Sign in' form. At the top of this box, it says 'Your IP: 87.212.118.163'. Below that is the heading 'Sign in' followed by 'With your Reaxys Account'. The form includes fields for 'Username' and 'Password'. Below these is a checkbox labeled 'Remember me on this computer' with a subtext '(Do not use on a shared computer!)'. A blue 'Sign in >' button is positioned below the checkbox. Underneath the button, there are links: 'Sign in via your institution' and 'Forgot your password?'. At the bottom of the white box, a dark grey bar contains the text 'Don't have access yet?' on the left and two links, 'Learn more >' and 'Contact sales >', on the right. In the bottom right corner of the entire page, there is a 'Feedback' button with a speech bubble icon.



Pro Tip: [Sign in or log in](#) to save searches and set alerts.

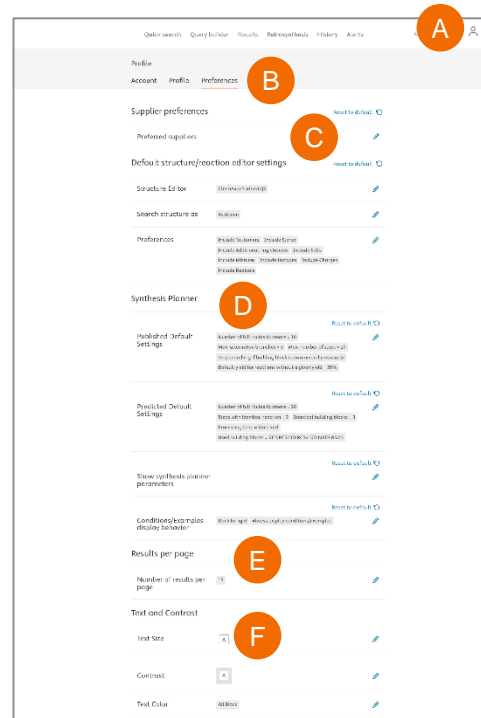


[Learn more about access.](#)

Personal settings

Tailor Reaxys to your scientific workflow. Sign in to customize Reaxys settings, including structure editors, automation, result display and accessibility options.

- A. Sign in by clicking your name or the person icon, then select Profile.
- B. Click Account to edit username, email and password. Access Preferences to adjust query settings.
- C. In the Structure Editor, select MarvinJS or ChemDrawJS as your preferred editor, and modify settings (e.g., include/exclude tautomers, salts).
- D. Among the settings for Autoplan, choose how many plans are auto-generated and the maximum number of steps.
- E. Choose the number of results per page.
- F. Adjust text size, contrast and text color for better accessibility.



Pro Tip: Enable MarvinJS and set default structure filters (e.g., include tautomers, exclude salts) to streamline substructure searches and avoid irrelevant hits during synthesis planning.

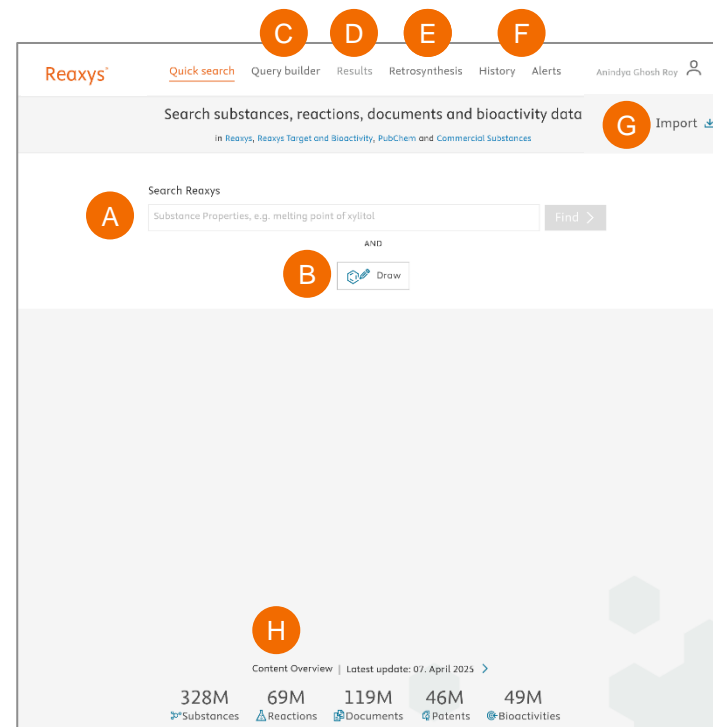


2. Homepage tour

Homepage tour

Start your search, find key data and accelerate discovery.

- A. Quick Search: Find substances, reactions, patents and documents
- B. Structure Search: Draw molecules (Marvin JS, ChemDraw JS)
- C. Query Builder: Build searches with fields, Boolean logic, bioactivity, spectra and patent querylets
- D. Results: Review, filter by reaction type, bioactivity, patents and export for analysis
- E. Retrosynthesis: Plan synthesis routes with AI
- F. History / Alerts: Save searches, research and set alerts
- G. Upload queries or datasets to import or integrate data
- H. View latest statistics in Reaxys content overview



Pro Tip: AI [Predictive Retrosynthesis](#) delivers faster, smarter synthesis routes to help you cut time, reduce costs and accelerate research.



[Contact us](#) to upgrade.



3. Reaxys core features

Reaxys core features

Advance discovery, plan synthesis and make confident decisions across industries.



1. Quick Search

Instantly explore validated chemistry data for substances, reactions, patents, and bioactivities.

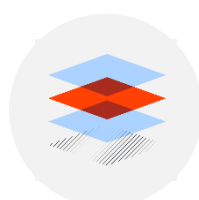
- Search experimental data
- Draw molecules
- Apply filters



2. Results

Leverage curated, context-rich results to support trusted R&D decisions.

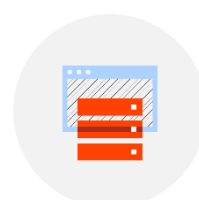
- Analyze experimental data
- Compare compound structures
- Export and share insights



3. Query Builder

Build multi-parameter searches with precision using filters, fields, and properties.

- Combine query fields
- Apply advanced filters
- Search by properties



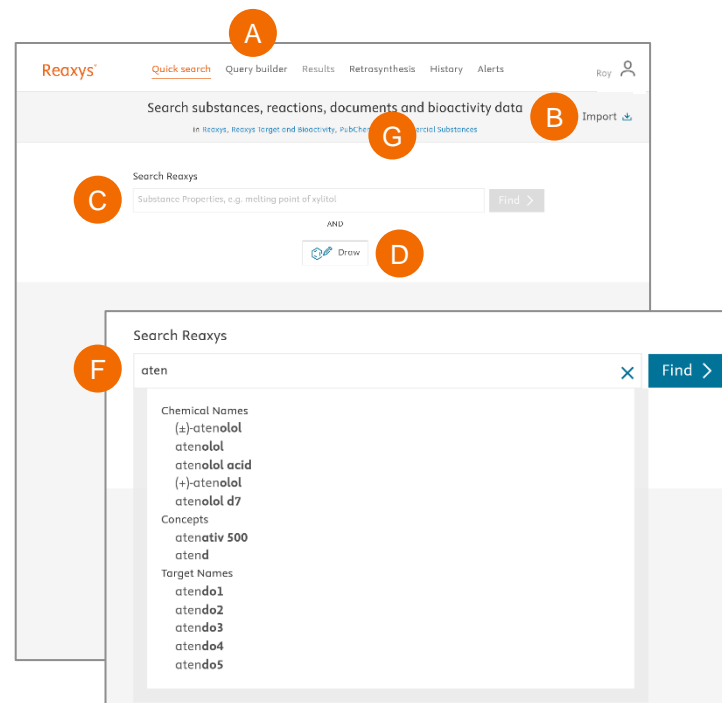
4. Retrosynthesis


Plan AI-powered and published synthesis routes to accelerate outcomes.

- Generate synthesis plans
- Explore AI-powered alternatives
- Compare reaction options

Quick Search

- A. Navigate to Quick Search: Click from top menu
- B. Import saved queries: Reload saved searches
- C. Enter search terms (chemical name, reaction, target, patent assignee, or author). *Auto-suggest* recommends synonyms (see F).
- D. Use the structure editor to sketch or paste chemical structures. Supports MarvinJS and ChemDraw JS.
- E. Click *Find* to run your search and preview ranked results.
- F. Use auto-suggest to complete terms like author names, synonyms, or targets — speeding up precise query building.

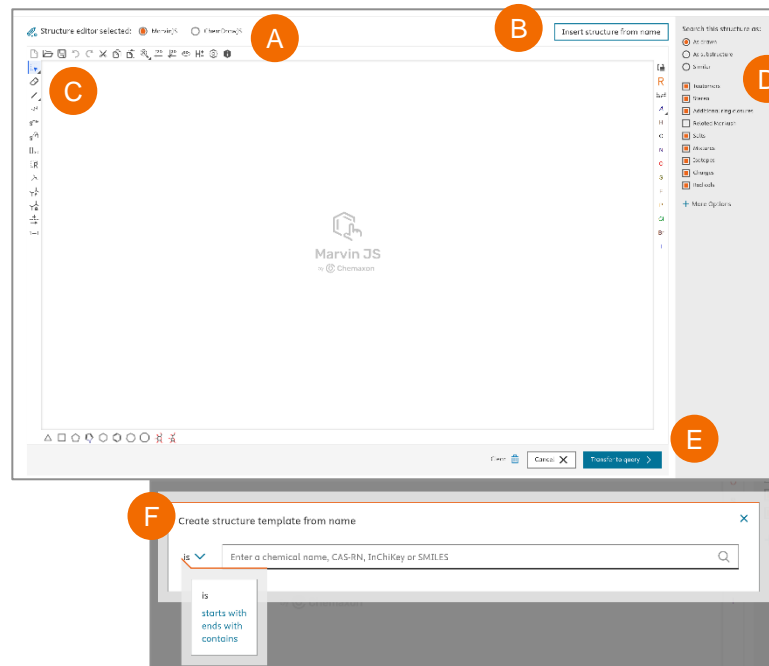


 **Pro Tip:** Combine chemical names and structures to enhance search precision.

 Article: [Learn more about search](#)

Quick Search: Structure editors

- A. Choose a structure editor: Select MarvinJS or ChemDrawJS (default: MarvinJS recommended)
- B. Insert structure from name: Enter a chemical name, CAS-RN, InChIKey or SMILES to auto-generate a structure (see F)
- C. Draw your structure: Use the drawing tools to create or modify your structure or reaction
- D. Apply search modifications: Expand searches by selecting tautomers, stereo configurations, isotopes or radicals
- E. Transfer to query: Click Transfer to Query to add the structure to your search and refine your parameters
- F. Create structure from name: Use structure templates to generate exact or partial matches



Pro Tip: Use Boolean operators (AND, OR, NOT) for complex searches.



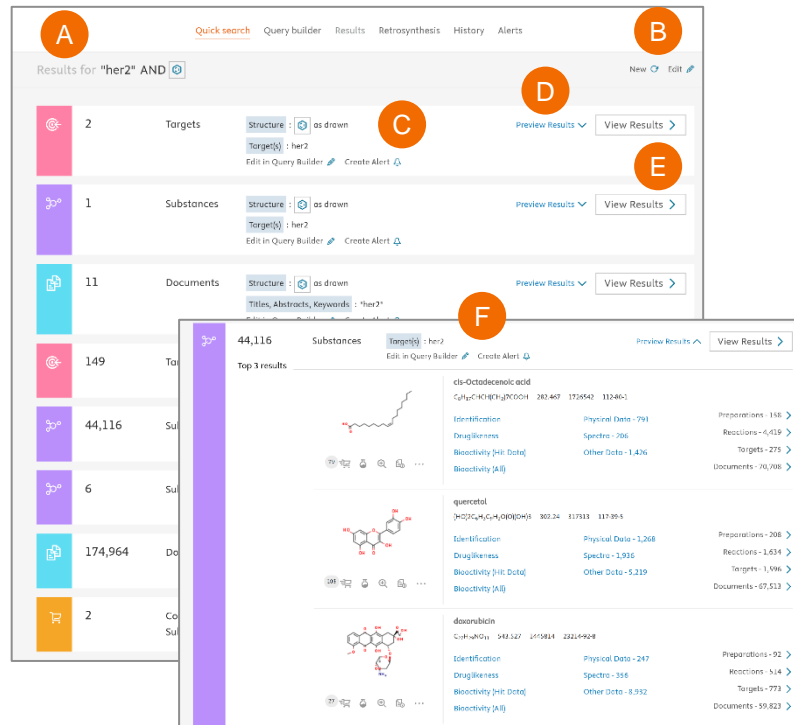
[How to create a Structure Drawing in Reaxys](#)



Learn more: [Structure drawing workflow](#)

Results: Preview

- Search term display: See your original query — keywords, structure, and filters
- Start new or edit search: Click New for a fresh search or Edit to modify
- Data overview: Categorize results across substances, reactions, documents, targets, or suppliers
- Preview key results: View the top three entries for any data type
- Access full results: Click View Results for complete results for filtering and further analysis
- Inset: Preview top hits, and see key properties and structures

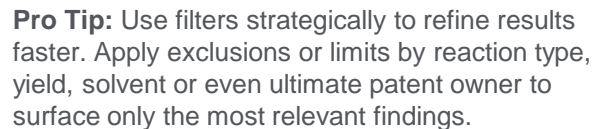


The screenshot shows the search results page for the query "her2" AND [structure]. The interface includes a top navigation bar with links for Quick search, Query builder, Results, Retrosynthesis, History, and Alerts. The main content area displays a list of results categorized by type: Targets (2), Substances (1), Documents (11), and a large category for Substances (44,116). Each category has a 'Structure' icon and a 'Target' icon. The 'Substances' category is expanded, showing a list of top 3 results: cis-Octadecenoic acid, quercetin, and doxanobin. Each result entry includes a chemical structure, a list of properties (Identification, Physical Data, Spectro, Druglikeness, Bioactivity, Other Data), and a list of related items (Preparations, Reactions, Targets, Documents). Annotations A-F highlight key features: A points to the search term display, B points to the 'New' button, C points to the 'Structure' icon, D points to the 'Preview Results' button, E points to the 'View Results' button, and F points to the 'Edit in Query Builder' button.



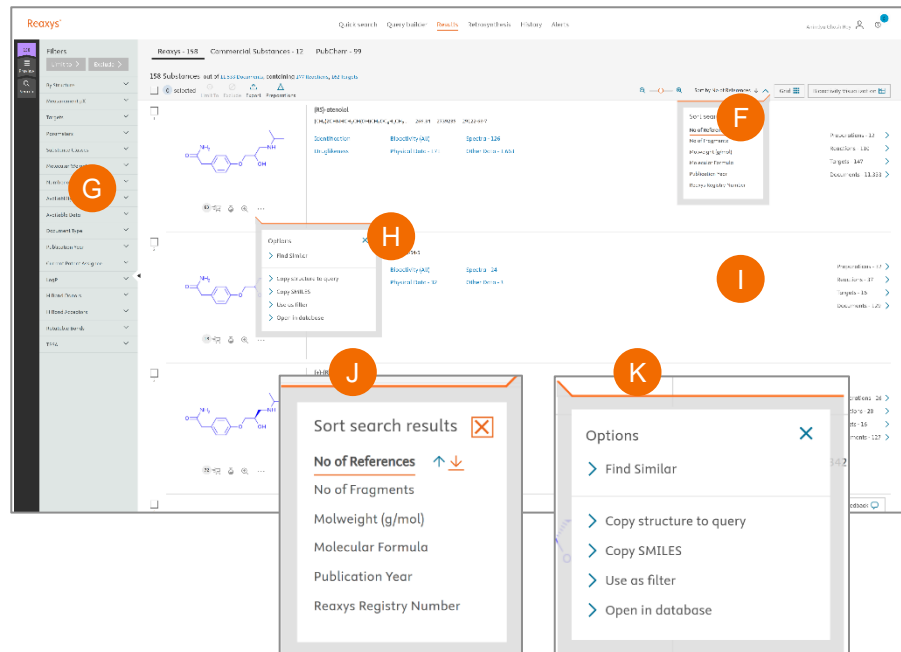
Pro Tip: Use the **Edit in Query Builder** feature to refine your search and highlight key taxonomies for more targeted and accurate results.

- [illegible]



Results

- F. Dynamic results filtering: Each results category has unique options
- G. Commercial substance availability: Use the shopping cart icon to check substance availability across suppliers (see inset J)
- H. Structure-based analysis: Refine synthesis plans and structure details based on drug-likeness properties and real spectra information
- I. Explore document links: Access key data excerpts and related result sets
- J. Inset: Displays commercial availability across suppliers
- K. Structure-based analysis: Options for structure-based refinements and database exploration



The screenshot displays the Reaxys software interface. The main window shows a list of 158 substances with columns for 'Structure', 'Molecular Weight', 'Molecular Formula', 'Publication Year', and 'Reaxys Registry Number'. Several chemical structures are visible. Overlaid on the interface are several callout boxes labeled with letters F through K, corresponding to the list items on the left. Box F points to a 'Dynamic results filtering' option. Box G points to a shopping cart icon. Box H points to a 'Structure-based analysis' option. Box I points to a 'Document links' option. Box J points to a 'Commercial availability' inset. Box K points to a 'Structure-based analysis' options menu.



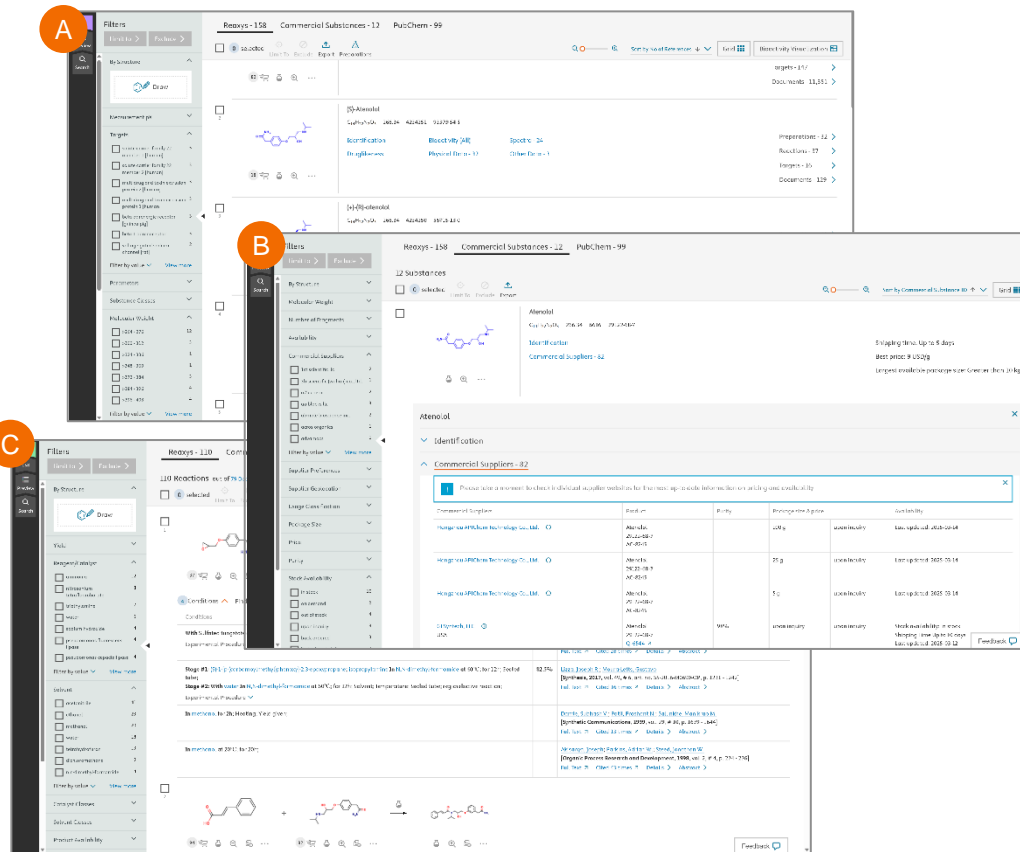
Pro Tip: Use structure-based tools to identify key properties and synthesis viability before proceeding with lab testing.

Results: Filter options

- Substance results: Filter by structure, molecular weight, pH, availability, publication year and patent assignee
- Commercial substance results: Filter by supplier, stock, price, purity, location and package size
- Reaction: Filter by conditions, reagents, catalysts, and solvents; toggle single-step reactions or experimental procedures



Pro Tip: Sustainability Filters – Identify Green Chemistry reactions and materials to support sustainable research.




The screenshot displays the Reaxys database interface with three main sections highlighted by red circles A, B, and C.

Section A: Substance Results shows a list of substances with columns for Name, Molecular Weight, pH, Availability, Publication Year, and Patent Assignee. The 'Filters' panel on the left allows filtering by these criteria.

Section B: Commercial Substance Results shows a list of commercial substances with columns for Name, Supplier, Stock, Price, Purity, Location, and Package Size. The 'Filters' panel on the left allows filtering by these criteria.

Section C: Reaction Results shows a list of reactions with columns for Name, Conditions, Reagents, Catalysts, Solvents, and Experimental Procedures. The 'Filters' panel on the left allows filtering by these criteria.

The interface also includes a 'Pro Tip' section at the bottom, which states: "Pro Tip: Sustainability Filters – Identify Green Chemistry reactions and materials to support sustainable research."

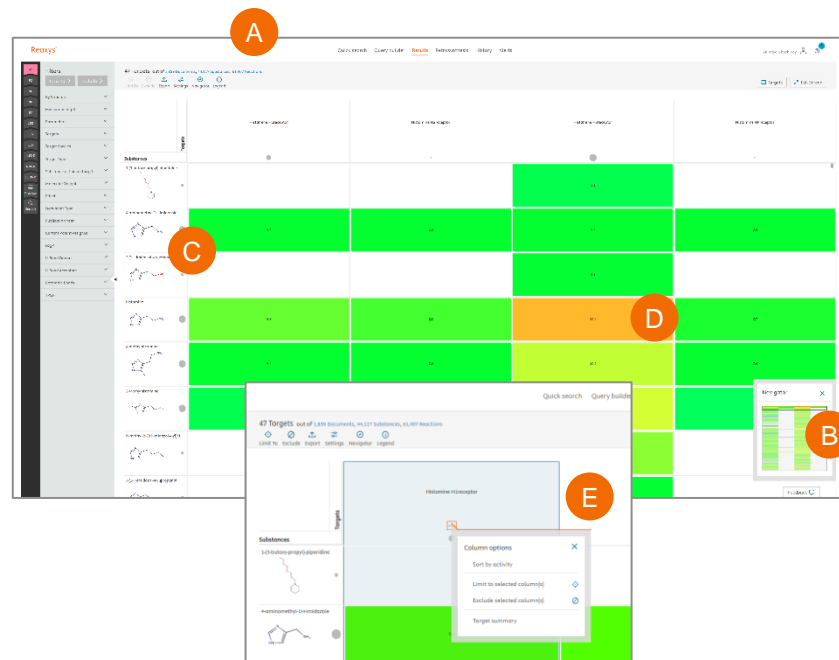
-  **Pro Tip:** Sustainability Filters – Identify Green Chemistry reactions and materials to support sustainable research.

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Results: Bioactivity Visualization

Use Bioactivity Visualization to explore Structure–Activity Relationships (SAR), compound potency, and target selectivity. Powered by normalized [pX values](#), the interactive matrix reveals differences in bioactivity strength across substances and targets.

- Use Export, Settings, Navigator and Legend to customize your view and extract data. Export pX values for analysis, sharing or reporting — especially useful for comparing across targets or identifying SAR trends.
- Use the Navigator panel (bottom right) to jump to regions of interest in large matrices
- Hover over substance or target names to reveal structures, synonyms and identifiers
- Click any cell to unlock detailed bioactivity insights potency, drug-likeness, target validation and linked literature
- Customize your visualization map by excluding columns and rows



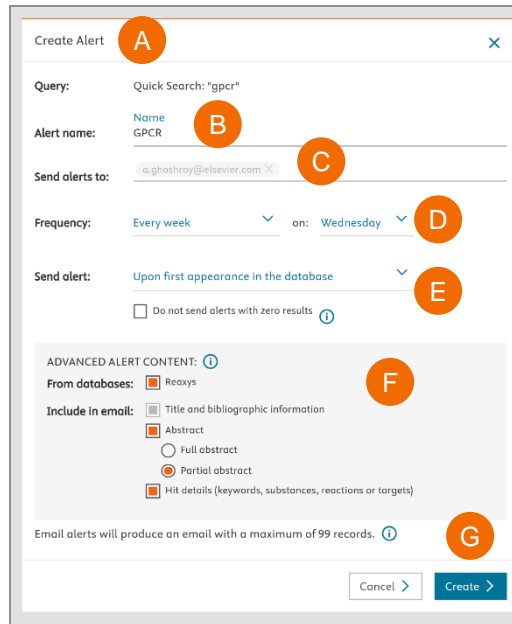
Pro Tip: Use the *Bioactivity Visualization* to spot SAR inflection points — where small structure changes lead to major shifts in potency.



Learn more: [What is a Bioactivity visualization map?](#)

Results: Create an alert

- A. Open alert window: Click Create Alert from Results Preview or History
- B. Define alert name: Enter a name to organize topics (e.g., molecule, competitor, project)
- C. Add recipients: Your email is auto-added; add others if needed
- D. Set frequency/timing: Choose weekly, bi-weekly, monthly or after database updates
- E. Set trigger conditions: Trigger alerts on document updates or first appearance. (Optional: exclude alerts with zero results.)
- F. Customize alert content: Select data source (e.g., Reaxys) and what to include (Title, Abstract, Hit details). For advanced alerts, use Query Builder first.
- G. Activate alert: Click Create to finalize and receive notifications



The screenshot shows the 'Create Alert' dialog box with the following fields and options:

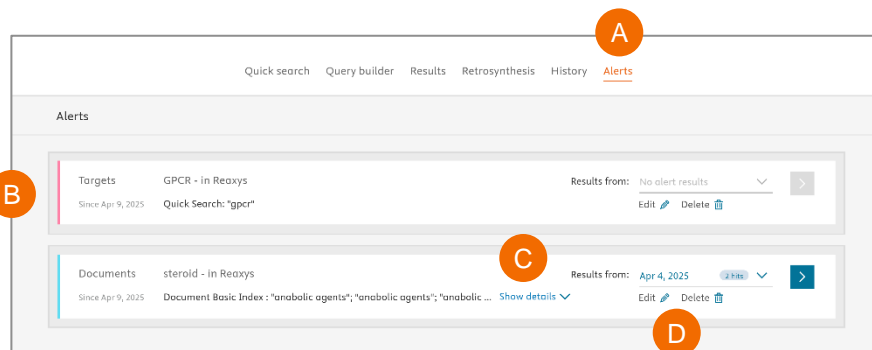
- Query:** Quick Search: "gpcr" (Annotation A)
- Alert name:** Name: GPCR (Annotation B)
- Send alerts to:** a.ghoshroy@elsevier.com (Annotation C)
- Frequency:** Every week (Annotation D)
- on:** Wednesday (Annotation D)
- Send alert:** Upon first appearance in the database (Annotation E)
- ☐ Do not send alerts with zero results (Annotation E)
- ADVANCED ALERT CONTENT:** (Annotation F)
 - From databases:** ☒ Reaxys
 - Include in email:**
 - ☒ Title and bibliographic information
 - ☒ Abstract
 - ☐ Full abstract
 - ☒ Partial abstract
 - ☒ Hit details (keywords, substances, reactions or targets)
- Email alerts will produce an email with a maximum of 99 records.** (Annotation G)
- Buttons:** Cancel, Create >



Pro Tip: Monitor your competitors — set an alert by patent assignee to track new filings from key players in your space

Results: Manage alerts

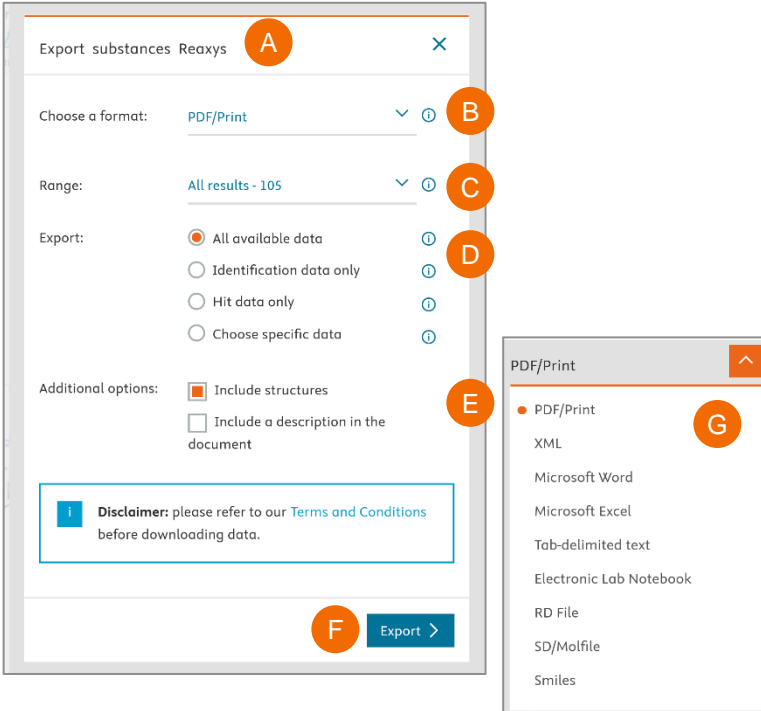
- A. Alerts tab: Click Alerts on the main navigation to view and manage your saved alerts
- B. Alerts list overview: Alerts appear from the newest to the oldest with details on query type (substances, reactions, targets, documents, commercial substances), creation date, database and alert name.
- C. Previous results: Use results from the dropdown menu to view earlier iterations of an alert — useful for spotting what's new.
- D. Edit or delete alerts: Click Edit to update alert frequency or name (query and email settings cannot be changed). Use Delete to permanently remove an alert.



Pro Tip: Set alert frequency based on research needs — weekly for updates and monthly for trends.

Results: Export

- A. Open export window: Click Export from the Results page to access export options
- B. Select format: Choose the file format (see G), including PDF, Word, Excel, SDfile and others
- C. Define range: Export all results, selected results or a custom selection
- D. Choose data to export: Select all data, ID-only, hit-only or specific fields
- E. Additional options: Include structures or descriptions to enrich reports
- F. Initiate export: Click Export to start or cancel anytime
- G. Export formats (inset): Export all results, selected results or a custom selection



The main dialog box is titled "Export substances Reaxys". It contains the following options:

- Choose a format:** PDF/Print (selected)
- Range:** All results - 105
- Export:**
 - ☒ All available data
 - ☐ Identification data only
 - ☐ Hit data only
 - ☐ Choose specific data
- Additional options:**
 - ☒ Include structures
 - ☐ Include a description in the document

At the bottom, there is a disclaimer: "Disclaimer: please refer to our [Terms and Conditions](#) before downloading data." and an "Export >" button.

The inset window, titled "PDF/Print", shows the following options:

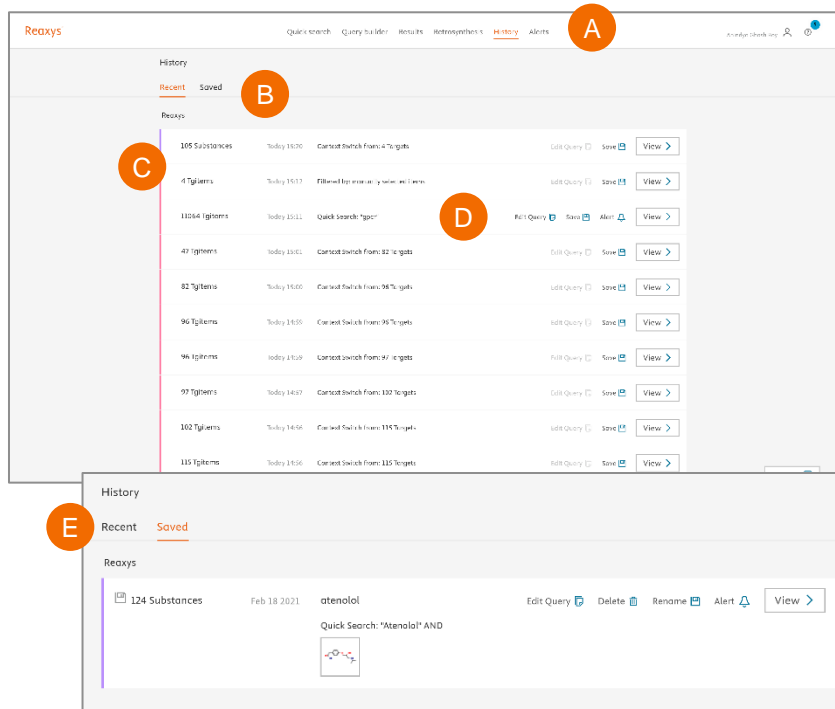
- ☒ PDF/Print
- ☐ XML
- ☐ Microsoft Word
- ☐ Microsoft Excel
- ☐ Tab-delimited text
- ☐ Electronic Lab Notebook
- ☐ RD File
- ☐ SD/Molfile
- ☐ Smiles



Pro Tip: Use Excel or SDfile formats for modeling and analysis. Reaxys exports up to 500 records per batch —only the first 500 will be included if more are selected.

Results: Query history

- A. History tab: Click History to access both recent and saved searches
- B. Recent queries: Displays queries and actions from your current session
- C. Saved queries: Shows queries saved from earlier sessions (see inset E)
- D. Edit and reuse: Click Edit Query, Save, Alert or View to modify or reuse saved searches
- E. Saved query options: Edit, rename or delete queries from the Saved list



The screenshot displays the Reaxys History tab, which is divided into two sections: Recent and Saved. The Recent section lists queries from the current session, while the Saved section lists queries saved from previous sessions. Callouts A through E highlight specific features and options within the interface.

Query ID	Date	Query Text	Actions
105 Substances	Today 16:30	Context Switch From: 4 Targets	Edit Query, Save, View
4 Targets	Today 16:33	Filtered top results by name and class	Edit Query, Save, View
11044 Targets	Today 16:11	Quick Search: "gpc"	Edit Query, Save, Alert, View
47 Targets	Today 16:01	Context Switch From: 82 Targets	Edit Query, Save, View
82 Targets	Today 16:00	Context Switch From: 96 Targets	Edit Query, Save, View
96 Targets	Today 16:00	Context Switch From: 96 Targets	Edit Query, Save, View
96 Targets	Today 16:00	Context Switch From: 96 Targets	Edit Query, Save, View
97 Targets	Today 16:00	Context Switch From: 97 Targets	Edit Query, Save, View
102 Targets	Today 16:04	Context Switch From: 102 Targets	Edit Query, Save, View
115 Targets	Today 16:06	Context Switch From: 115 Targets	Edit Query, Save, View

Inset E (Saved Query):

Query ID	Date	Query Text	Actions
124 Substances	Feb 18 2021	atenolol	Edit Query, Delete, Rename, Alert, View

Quick Search: "Atenolol" AND

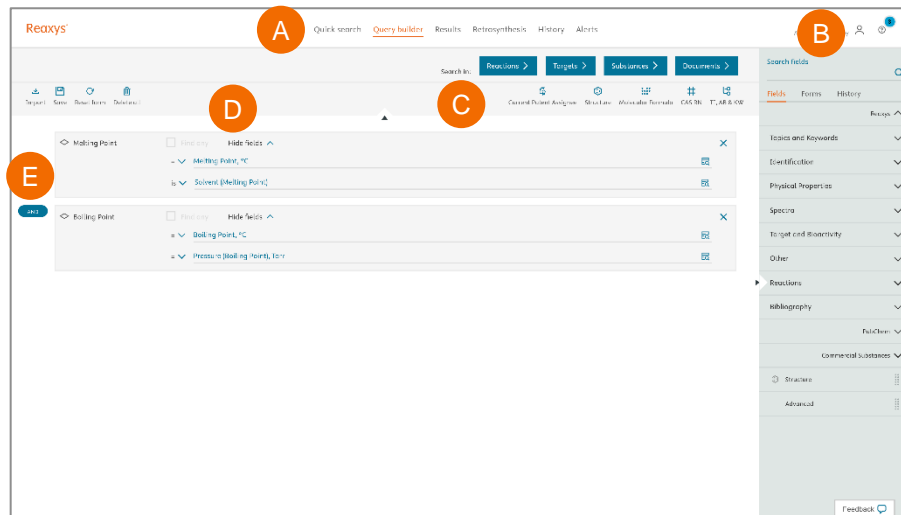
CC(C)C(=O)Nc1ccc(C2=CC=CC=C2)cc1C3=CC=CC=C3



Pro Tip: Keep key queries saved for fast recall to reduce repetition and improve research efficiency.

Query Builder

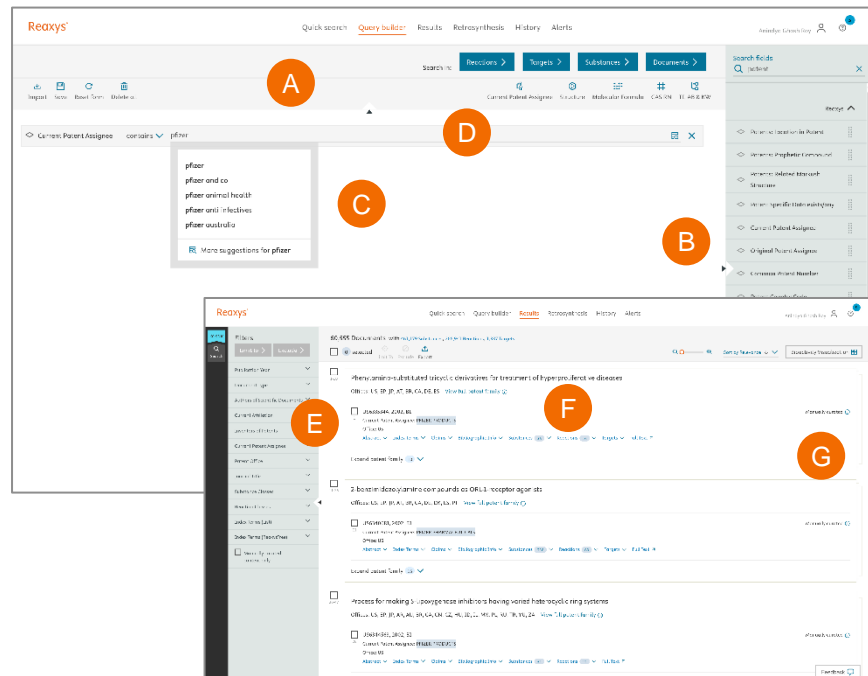
- A. Open Query Builder: Launch from the top navigation or use Edit Query to customize your search
- B. Add fields with drag-and-drop: Combine chemical, biological and patent fields (e.g., Melting Point, CAS Numbers, Patent Assignee)
- C. Combine science and IP data: Find high-potency compounds with known synthesis routes, not patented by competitors
- D. Save, reuse and set alerts: Save queries for later use and set alerts for new data (substances, reactions, patents)
- E. Boolean logic: Use AND, OR and NOT to expand or narrow your query — perfect for refining SAR or patent filters



Pro Tip: Combine Patent Assignee, Bioactivity, and Synthesis fields to accelerate discovery of high-potency, synthesizable compounds not claimed in patents to help you unlock novel, innovation-ready opportunities.

Query Builder results: Analyze patent ownership

- Launch Query Builder from the main navigation
- Select current patent assignee, original assignee or ultimate owner (under Bibliography) to focus on ownership data across substances, reactions and documents
- Enter a company or institution name: Use contains for flexible search. Type the full or partial name (e.g., Pfizer) to return a wide match
- Choose result types: Select Substances, Reactions, Targets or Documents to explore data linked to the selected assignee
- Filter and analyze results: Use the Results page to filter by target, structure or property and identify patent-linked compounds and trends
- View the list of patent families: Click to check the patent entire family cluster
- Data manually curated or automated: See if data is curated manually or automatically generated



The screenshot displays the Reaxys Query Builder interface. The top navigation bar includes 'Quick search', 'Query builder', 'Results', 'Retrosynthesis', 'History', and 'Alerts'. The 'Query builder' tab is active, showing a search bar with 'Pfizer' entered. Below the search bar, a dropdown menu lists 'Current Patent Assignee', 'Original Assignee', and 'Ultimate Owner'. The 'Current Patent Assignee' is selected, and a list of suggestions for 'Pfizer' is shown. The 'Results' tab is also visible, displaying a list of patent families with columns for 'Patent number', 'Title', 'Inventor', and 'Assignee'. The results are filtered by 'Current Patent Assignee' and 'Original Assignee'. The 'Results' tab shows a list of patent families with columns for 'Patent number', 'Title', 'Inventor', and 'Assignee'. The results are filtered by 'Current Patent Assignee' and 'Original Assignee'.



Pro Tip: Use Results filters to analyze ownership trends across linked substances, reactions and targets — ideal for whitespace analysis or portfolio benchmarking.

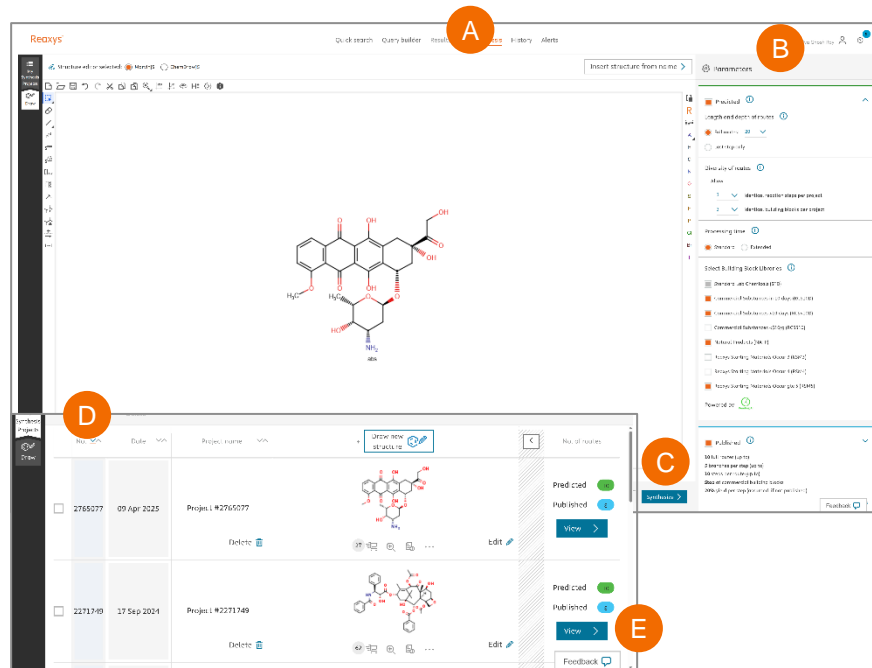


Learn more: [Query builder articles](#)

Retrosynthesis: Published

Set up a Retrosynthesis Query

- Go to the Retrosynthesis page and draw a compound: Launch the structure editor to sketch or import your compound of interest
- Define search parameters for published synthesis routes. Available to all users with a Reaxys account. If your institution has access to the Predictive Retrosynthesis (AI) module, you'll also see the option to select Predicted routes
- Click synthesize: Run the query to generate available retrosynthetic pathways based on your structure
- A Retrosynthesis Project is Added to Your Projects Page: Sign-in required to save, revisit or track retrosynthesis workflows over time
- Analyze synthesis route: Review full reaction steps, intermediates and experimental conditions in a structured, interactive view



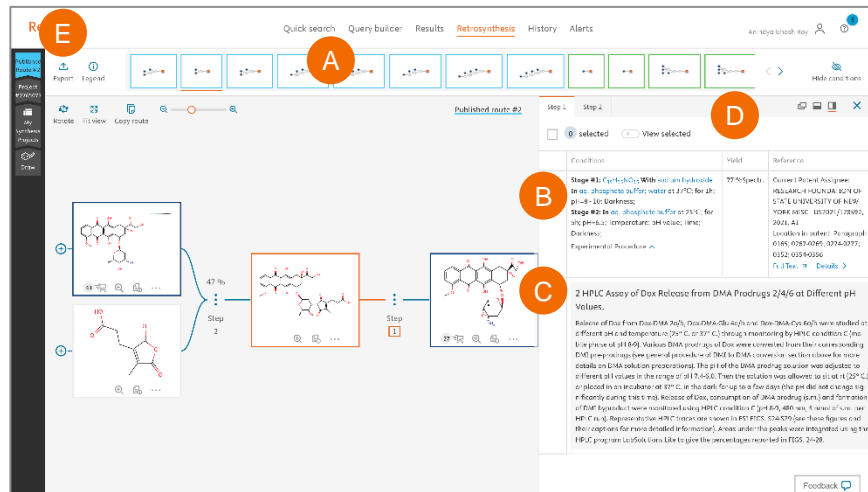
The screenshot displays the Reaxys Retrosynthesis interface. At the top, a navigation bar includes 'Quick search', 'Query builder', 'History', and 'Alerts'. The main workspace is divided into three sections: a structure editor (A) showing a complex polycyclic molecule, a search parameters panel (B) on the right with filters for 'Published' and 'Predicted' routes, and a project results table (D) at the bottom. The table lists two projects: 'Project #2765577' and 'Project #2271349'. A 'Synthesize' button (C) is located below the search parameters. A 'Feedback' button (E) is at the bottom right. A 'Pro Tip' icon (lightbulb) is positioned below the screenshot.



Pro Tip: Use Published routes for validated, literature-based synthesis pathways. Facing synthesis bottlenecks? Try Predicted routes (AI module required) to explore novel, machine-suggested alternatives.

Retrosynthesis: Analyze results

- A. Toggle between synthesis routes and reaction steps: Use the navigation buttons to switch between alternative synthesis plans and step-by-step pathways.
- B. Review experimental conditions: View reaction yields, temperatures, solvents and literature references for each step.
- C. Access experimental procedures: When available, open full-text procedures to replicate or assess reactions
- D. Switch layout or use the *Fit View*: Toggle between vertical/horizontal layout and zoom to fit complex pathways more easily
- E. Export synthesis routes: Download structure diagrams and experimental data, or export directly to ChemDraw for lab planning or collaboration



The screenshot displays the Retrosynthesis software interface. The top navigation bar includes buttons for 'Quick search', 'Query builder', 'Results', 'Retrosynthesis', 'History', and 'Alerts'. The main workspace shows a reaction pathway with chemical structures and reaction steps. A sidebar on the left contains navigation options like 'Retrosynthesis', 'Export', 'Export', 'Fit view', 'Copy route', 'Zoom', 'Fit view', 'Copy route', 'Zoom', 'Fit view', 'Copy route', 'Zoom'. The right sidebar provides detailed experimental conditions for a specific step, including reagents, solvents, temperatures, and references. The interface is annotated with letters A through E, corresponding to the instructions in the list.

Step 1: 47 %

Step 2: 47 %

Step 3: 47 %

Step 4: 47 %

Step 5: 47 %

Step 6: 47 %

Step 7: 47 %

Step 8: 47 %

Step 9: 47 %

Step 10: 47 %

Step 11: 47 %

Step 12: 47 %

Step 13: 47 %

Step 14: 47 %

Step 15: 47 %

Step 16: 47 %

Step 17: 47 %

Step 18: 47 %

Step 19: 47 %

Step 20: 47 %

Step 21: 47 %

Step 22: 47 %

Step 23: 47 %

Step 24: 47 %

Step 25: 47 %

Step 26: 47 %

Step 27: 47 %

Step 28: 47 %

Step 29: 47 %

Step 30: 47 %

Step 31: 47 %

Step 32: 47 %

Step 33: 47 %

Step 34: 47 %

Step 35: 47 %

Step 36: 47 %

Step 37: 47 %

Step 38: 47 %

Step 39: 47 %

Step 40: 47 %

Step 41: 47 %

Step 42: 47 %

Step 43: 47 %

Step 44: 47 %

Step 45: 47 %

Step 46: 47 %

Step 47: 47 %

Step 48: 47 %

Step 49: 47 %

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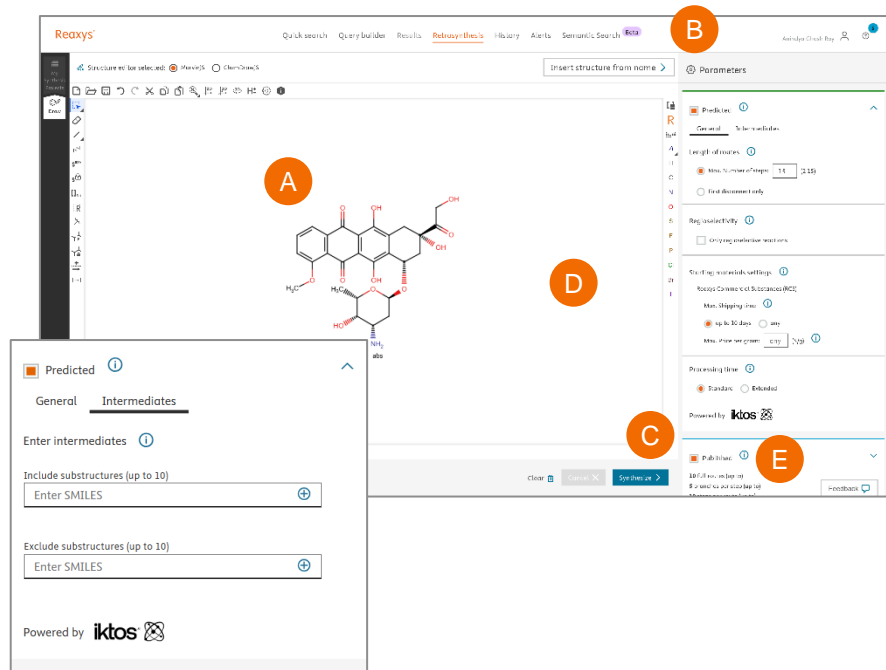
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Step 59

Predictive Retrosynthesis: Synthesis plan

- A. Open the Retrosynthesis page and draw your compound. Use the structure editor to sketch or import a compound of interest
- B. Select Predicted Synthesis Route: Only visible if your institution has access to the Predictive Retrosynthesis module
- C. Adjust parameters: Customize diversity, speed and building blocks to guide AI output
- D. Click Synthesize: Generate AI-predicted synthetic routes based on internal algorithms and published knowledge
- E. Review in Projects Page: Compare AI routes with published routes (if available) and refine as needed. Sign-in required to save or revisit




Pro Tip: Use AI-predicted routes when published options hit bottlenecks. Quickly uncover patent-free or novel synthetic routes tailored to your criteria.



[Contact us](#) to enroll in the Reaxys Predictive Retrosynthesis subscription.

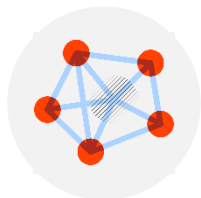
Learn more: [\[Pending AI Guide\]](#) · [\[Iktos Guide\]](#)



4. Reaxys core content

Reaxys core content

Explore the most comprehensive validated chemistry and bioactivity insights



1. Substances

Explore hundreds of millions of experimentally validated compounds — with full physicochemical data, commercial availability and supplier sourcing.



2. Reactions

Access one of the world's largest collections of synthetic reactions — with detailed conditions, catalysts, yields and predictive route planning.



3. Documents

Search across thousands of journals and reference sources — connecting literature to chemical structures, reactions and bioactivities.



4. Patents

Mine chemistry-rich patents from global authorities — structured by chemical entities and searchable by reactions, targets and claims.



5. Bioactivities

Discover tens of millions of curated bioactivity datapoints — mapped to targets, SAR, MoA and therapeutic outcomes.

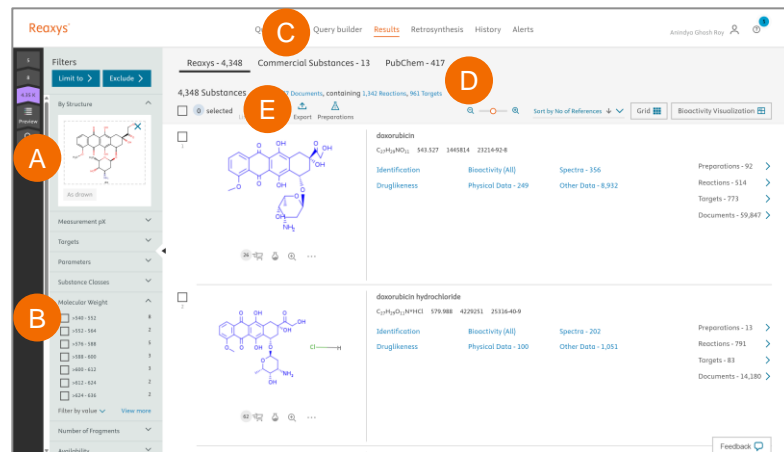


Sign in or sign up to see the latest [Reaxys content](#) updated numbers

Substances

Design new molecules with experimentally validated substances.

- A. Start with chemical structure or name input
- B. Filter by physicochemical properties (e.g., logP, MW, solubility)
- C. Toggle supplier availability for sourcing: Explore commercial availability across hundreds of global suppliers — directly linked to Reaxys substance records
- D. Explore linked reactions, targets and literature
- E. Export or reuse the curated dataset




Pro Tip: Use Reaxys to find, validate and source compounds — instantly.



How to [search for substances](#) by name? Watch 2m [Video](#)



How to quickly [obtain a commercial substance](#)?



How to set your [supplier preferences](#) workflow?

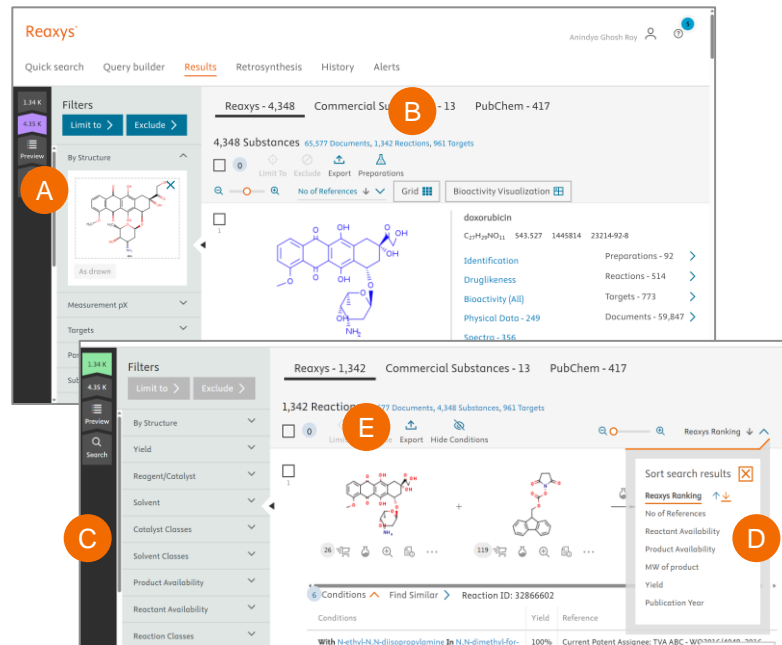


How to [avoid structural motifs](#) with known safety issues

Reactions

Plan optimized synthesis routes using experimentally validated reaction.

- A. Draw or import a target molecule
- B. Open the reactions tab to explore all viable synthetic transformations
- C. Filter by reagents, catalysts, solvent, yield and temperature
- D. Rank by reaction yield or experimental conditions
- E. Export the route or validate with predictive AI tools, grounded in real lab-reported data

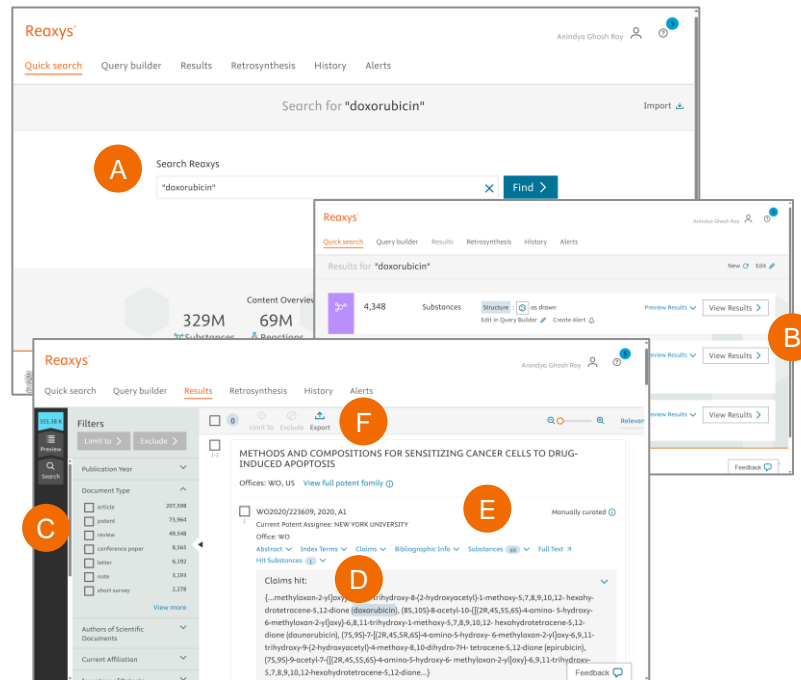


Pro Tip: Quickly identify the most viable synthetic pathways using conditions reported in the literature — not just predictions.

Documents

Find literature across disciplines with exact compound or reaction mention — not just keywords.

- Run a structure, substance or keyword search
- View documents result
- Filter by source type (e.g., journal vs. patent)
- Access highlighted chemical context in the full-text
- Trace back to linked substances, reactions and bioactivity
- Export and reuse filtered references for reporting, compliance or formulation insights



The screenshot displays the Reaxys search interface. At the top, a search bar (A) contains the query "doxorubicin". Below the search bar, a results list (B) shows 4,348 results. A filter sidebar (C) on the left allows filtering by document type, including patent, review, conference paper, letter, note, and short survey. The main content area shows a full-text view (D) of a document titled "METHODS AND COMPOSITIONS FOR SENSITIZING CANCER CELLS TO DRUG-INDUCED APOPTOSIS". A linked substance view (E) is also visible, showing the chemical structure of doxorubicin. A 'Pro Tip' icon (F) is located in the bottom right corner of the interface.

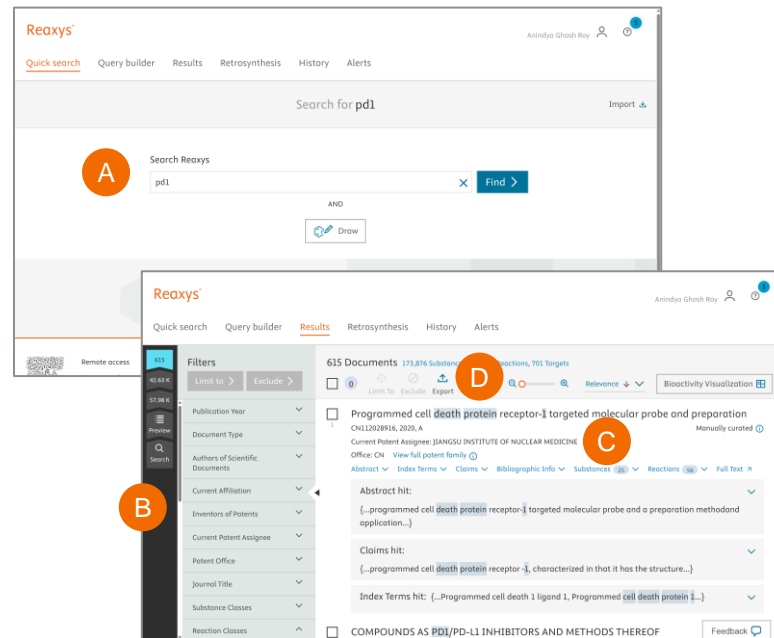


Pro Tip: Link documents directly to compounds and reactions and skip generic keyword mining to access real experimental insights, faster.

Patents

Discover novel compounds, reactions or targets disclosed in global patents.

- A. Enter compound or keyword
- B. Filter by jurisdiction (e.g., EPO, USPTO)
- C. View mapped reactions or targets
- D. Export into patent report



The screenshot displays the Reaxys interface. The top section shows a search for 'pd1' with a 'Find' button. Below this, the 'Results' tab is active, showing a list of 615 documents. The left sidebar contains filters for 'Publication Year', 'Document Type', 'Authors of Scientific Documents', 'Current Affiliation', 'Inventors of Patents', 'Current Patent Assignee', 'Patent Office', 'Journal Title', 'Substance Classes', and 'Reaction Classes'. The main content area shows a list of documents, with the first document titled 'Programmed cell death protein receptor-1 targeted molecular probe and preparation' (CN112028916, 2020, A). The document details include the current patent assignee (JIANGSU INSTITUTE OF NUCLEAR MEDICINE) and the office (CN). The abstract hit is: '{...programmed cell death protein receptor-1 targeted molecular probe and a preparation method and application...}'. The claims hit is: '{...programmed cell death protein receptor-1, characterized in that it has the structure...}'. The index terms hit is: '{...Programmed cell death 1 ligand 1, Programmed cell death protein 1...}'. The bottom of the page shows the document title 'COMPOUNDS AS PD1/PD-L1 INHIBITORS AND METHODS THEREOF'.



Pro Tip: Mine patent databases to surface novel compounds and reactions, identify therapeutic claims, and compare protected synthetic routes across jurisdictions.

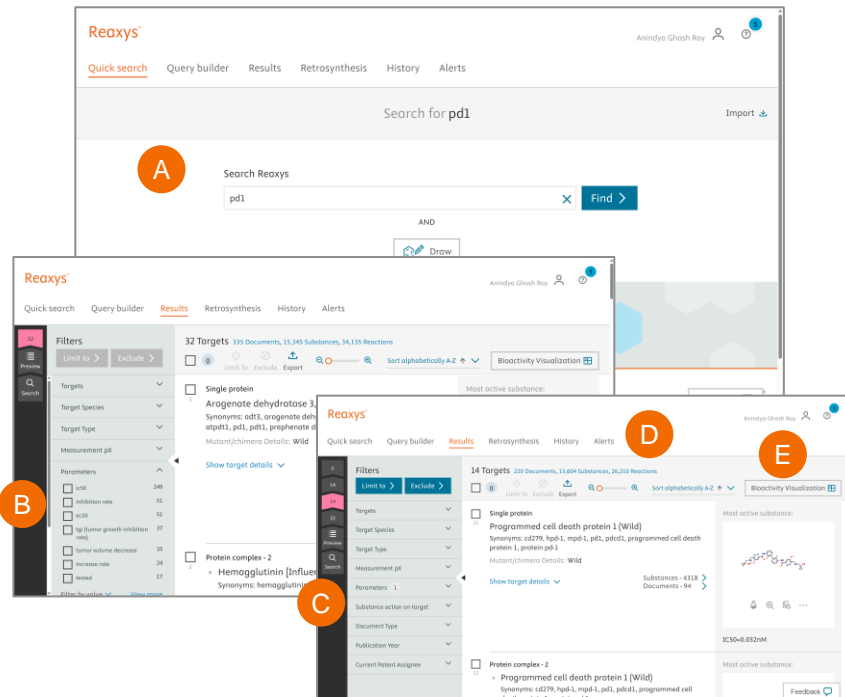


How to obtain SAR data for compounds in a patent? Watch 2m [video](#)

Bioactivities

Profile molecular targets and bioactivity outcomes to guide SAR, MoA and pharmacology insights.

- Run structure or compound name input
- Filter by bioactivity outcome (e.g., IC50, Ki, EC50)
- Toggle filters for target type, target class or species
- Navigate to linked targets, compounds and documents
- Export bioactivity tables for SAR, validation or submission



The screenshots illustrate the Reaxys workflow for bioactivity search. Screenshot A shows the search bar with 'pd1' entered. Screenshot B shows the 'Filters' sidebar with various parameters like 'Target Species' and 'Measurement pH'. Screenshot C shows the 'Results' page with a list of targets and their associated bioactivity data.



Pro Tip: Use Reaxys to explore how compounds act on biological targets — and identify therapeutic potential, safety flags, or optimization paths using trusted, experimentally validated bioactivity data.



[Watch Target & Bioactivity expert tips](#)



5 - Reaxys resources and support

Reaxys resources and support

Learn, build knowledge, gain insights, stay updated on product advancements and connect with peers through community events.



Learning

Watch tutorials, register for courses and webinars and access how-to guides.



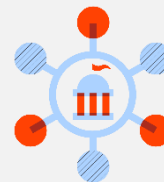
Knowledge

Fast-track your knowledge with scientific articles, webinars, videos and tips from experts.



Product

Read reference documentation for API, browse solutions and manuals, see the latest releases and contact support.



Community

Learn how real customers use Reaxys for their business. Participate in Reaxys events and connect with your peers.



Pro Tip: [Sign in or sign up](#) to access the latest how-to tutorials and articles, courses, insights and product advancements.



Contact support: Having trouble signing in? [Try these steps](#).



Thank you

