

CAS SCIENTIFIC PATENT EXPLORER™

GAIN SCIENTIFIC IP INSIGHTS AND MAKE BREAKTHROUGHS

A powerful new tool to accelerate your IP search

CAS Scientific Patent Explorer offers a unique combination of patent analysis and breadth of patent content with world renowned CAS chemical capabilities and content to provide a powerful solution for patent professionals and scientists in an intuitive tool.



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Intuitive tool for both chemical and non-chemical patent searches

Filter up front by authority or patent type to save time

Report or share with other colleagues in your organization

The screenshot shows a patent search interface with several key components:

- Filters:** A sidebar on the left allows filtering by 'Patent type' (Application, Patent, Utility) and 'All databases' (IP 5, United States (US), China (CN), EPO (EP), Japan (JP), Korea (KR), WIPO (WO), Austria (AT), Australia (AU)).
- Field search:** A central area for defining search criteria, including 'Main Fields' (Anticoagulation fluid), 'Current Assignee' (Baxter), and 'OR' (Merch).
- Custom Fields Dialog:** A modal window titled 'Custom Fields' allows users to select fields from an 'Available Fields' list (Priority Date, Original Assignee, Docdb Assignee, First Current Assignee, Inventor Name, First Inventor, Agency, CPC, Title (Translated), Patent Type) and move them to a 'Chosen Fields (7/30)' list. Fields like Publication Number, Application Number, Publication Date, Authority, Current Assignee, Claims, and Legal Status are already chosen.
- Export Options:** A 'Save as export template...' dialog is open, showing 'Monthly Report' as the selected template, with 'Save' and 'Cancel' buttons.

Multi-color highlighting helps find patents faster

The screenshot displays a patent document viewer and a search results table:

- Patent Document Viewer:** Shows the abstract and claims of US5039604A. The abstract describes a test device for detecting HTLV or HIV antibodies. The claims list various components and methods. A 'Highlighter' tool is active, showing a legend with categories: assay (blue), antibodies (pink), viral (green), compounds (orange), and Other (highlight rest of matching keywords) (grey).
- Search Results Table:** A table with columns for 'Publication Number', 'Title', 'Legal Status & Events', 'Publication Date', 'Application Number', and 'Application Date'. It lists several search results, including US5039604A, US20070269420A1, US20050191703A1, and US20020094521A1.



Quickly analyze and visualize chemical patent content



CAS proprietary searches and patent functionality in one tool

The screenshot shows the CAS Patent Explorer interface. The search results are displayed in a grid of 8 cards, each representing a different stereochemical isomer of Deoxynojirimycin. The first card (1) is highlighted with a yellow box and labeled 'View 567 Relevant Patents'. The cards show the chemical structure, absolute stereochemistry, and the number of relevant patents for each isomer.

Card #	Pub No.	Chemical Name	Relevant Patents
1	19130-96-2	Deoxynojirimycin	567
2	84444-90-6	1-Deoxygalactonojirimycin	78
3	108147-54-2	1-Deoxygalactonojirimycin	91
4	16647-80-6	1-Deoxy-L-idojirimycin	7
5	117821-07-5	Deoxynojirimycin	-
6	188779-13-7	Deoxynojirimycin	-
7	84518-54-7	Deoxynojirimycin	-
8	158341-94-7	Deoxynojirimycin	-

Below the grid, a table of search results is shown, filtered by 'Simple Legal Status' to 'Examining' patents. The table includes columns for Publication Number, Title, Legal Status & Events, Publication Date, Application Number, and Application Date.

Publication Number	Title	Legal Status & Events	Publication Date	Application Number	Application Date
1 JP2021042160A	Cholesterol elevation suppressor, food and drink for suppressing cholesterol, high cholesterolemia inhibitor, food and drink for high cholesterolemia suppression, and method for producing cholesterol elevation suppressor	Examining	18 Mar 2021	JP2019165019	11 Sep 2019
2 CN112481035A	Extraction method of fresh lotus oil essential oil	Examining	12 Mar 2021	CN202011295514.6	18 Nov 2020
3 JP2021018911A	Excipients for electrolytes, electrolytes, and lithium batteries	Examining	15 Feb 2021	JP2019133521	19 Jul 2019
4 CN112358389A	A preparation method for photochemical synthesis of 2-methyl-5-oxo-1,4-dihydropyridin-3(1H)-one	Examining	12 Feb 2021	CN202011098023.2	14 Oct 2020



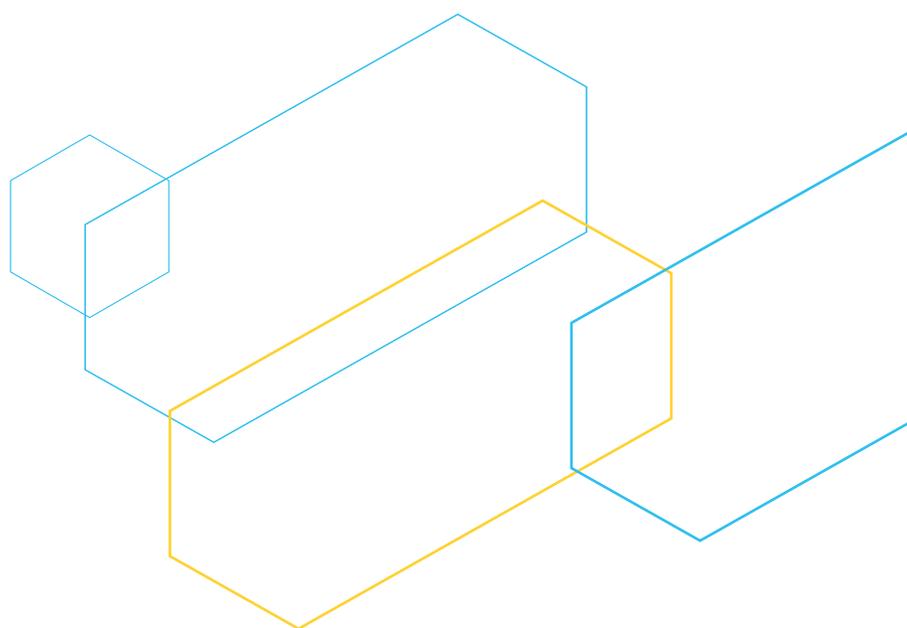
Let's say, for example, you are looking for a patent, a new antioxidant additive for biofuels. With the CAS Scientific Patent Explorer, you can search for key terms specifically in the patent claims, and broader terms in the full text.

Field search

Claims	▼	antioxidant*		
AND	▼	Claims	▼	additive*
AND	▼	Title/Abstract/Claims/Desc...	▼	biodiesel or biofuel or alternative fuel

Once you have your answer set, the Legal Status can limit your answer set to active patents.

Legal Status		^
<input checked="" type="checkbox"/>	Granted	589
<input type="checkbox"/>	Withdrawn	335
<input type="checkbox"/>	Non-payment	161
<input checked="" type="checkbox"/>	Examining	83
<input type="checkbox"/>	Expired	69
<input type="checkbox"/>	Abandoned	67
<input type="checkbox"/>	Ceased	52
<input checked="" type="checkbox"/>	Published	40
<input type="checkbox"/>	Rejected	17
<input type="checkbox"/>	Revoked	4



You can review the active patents, to see if any of these will affect the patentability of your invention.

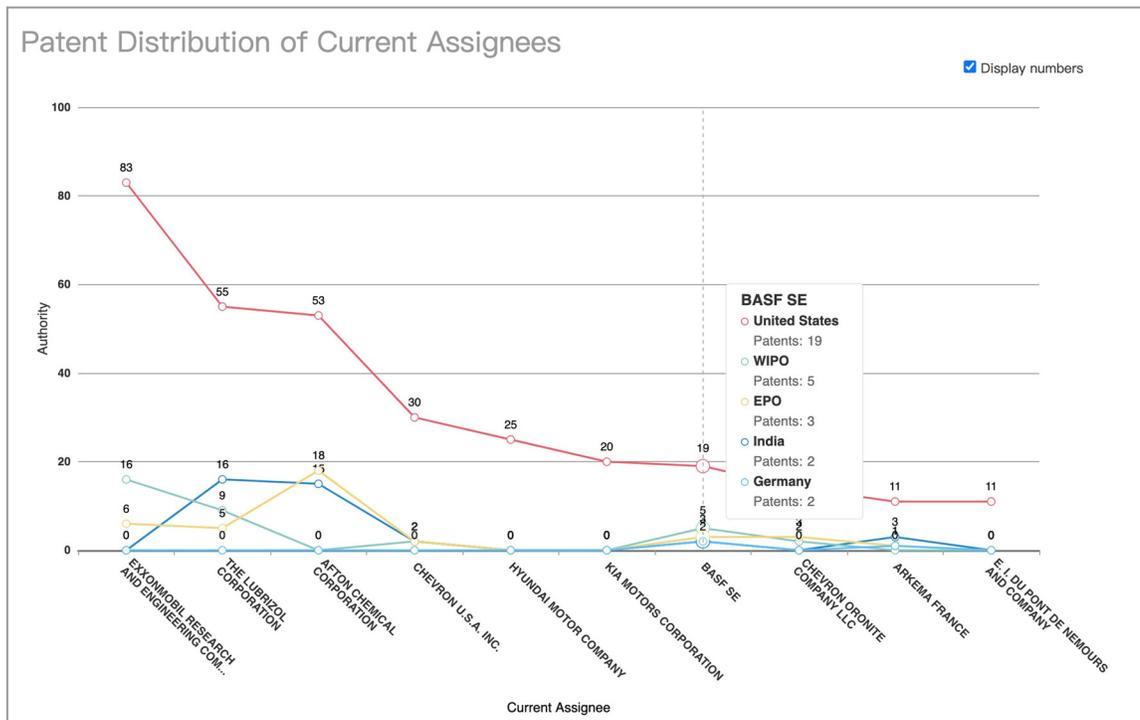
US9109175B2	Isoprenoid based alternative diesel fuel	Granted License	18 Aug 2015
US8864853B2	Additive mixture for the bactericidal and anticorrosive additization of fuels	Granted Transfer	21 Oct 2014
US20100016193A1	Method for stabilizing diesel engine lubricating oil against degradation by biodiesel fuel	Granted	21 Jan 2010

The Legal Status in the CAS Patent Explorer can also show you which patents have expired, or been withdrawn.

1	DE602015062127T2	Lubricant composition with wear protection for engines	Non-payment	18 Nov 2020
2	EP3699168A1	Branched-chain esters and methods of making and using the same	Withdrawn	26 Aug 2020
3	EP3684895A1	Hydraulic oil compositions with improved hydrolytic and thermo-oxidative stability	Withdrawn	29 Jul 2020



The Analysis features offers thirty customizable graphs to analyze data, including Patent Assignee, Patent Application Year, Patent Country, Classification Code, and more, to identify trends within your search results.

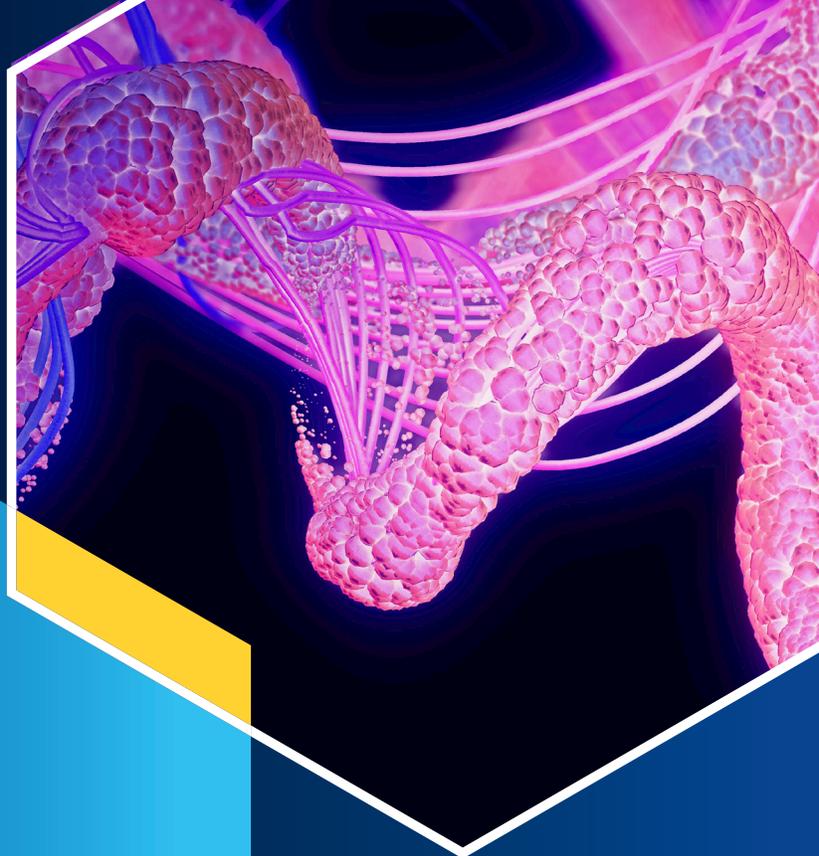


CAS Scientific Patent Explorer kick-starts your IP search

- Search a wide array of patent content using both text and chemical structures
- Use CAS registered content and algorithms to uncover patent information related to your search
- Visualize chemical structures and associated patent findings in 3D landscape tool

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