CAS SciFinderN





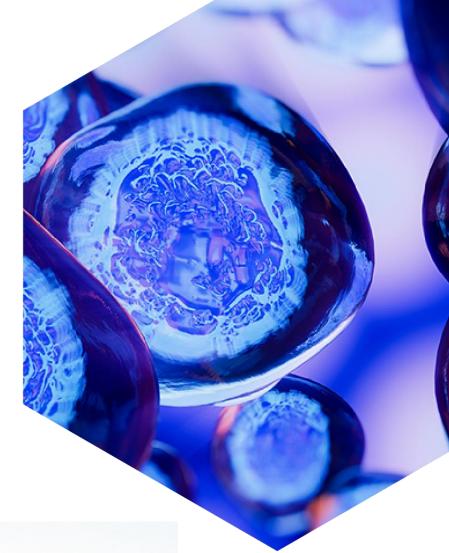
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About CAS

Founded in 1907, chemists around the world understood the value to research in aggregating scientific information.

Today we are a global organization of expert scientists, technologists, and business leaders with a long and successful history of harnessing scientific information to support valuable research insights.

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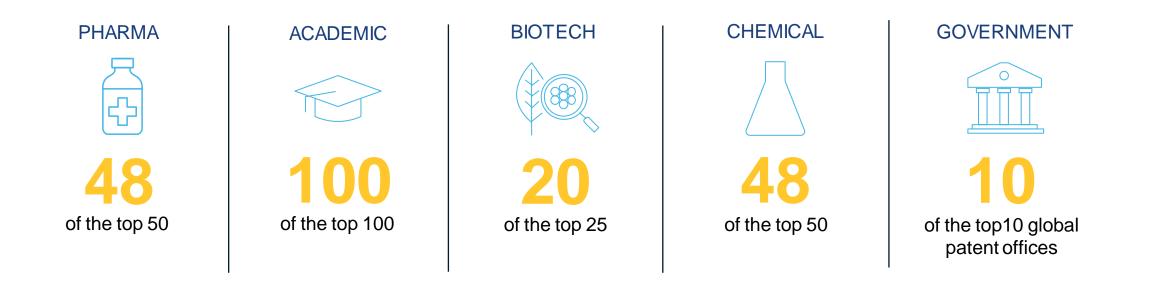




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 Genetic Engineering & Biotechnology News Top 25 Biotech Companies of 2019.
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and documents

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Over

million substances

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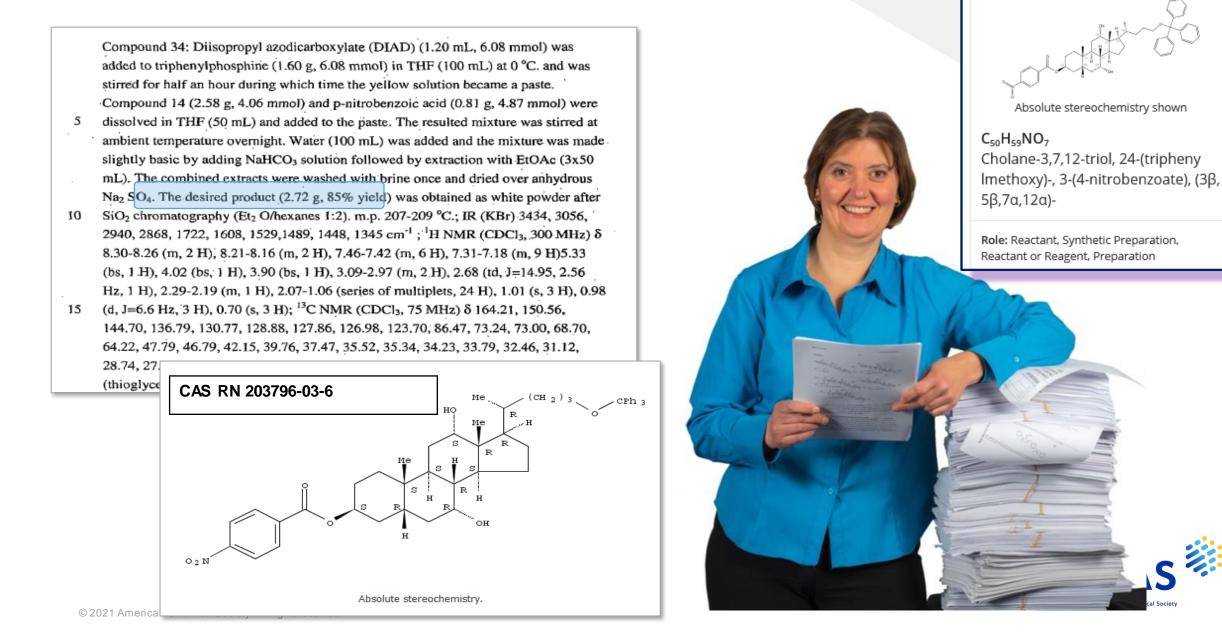
Over

64 patent offices worldwide



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CAS scientists find the chemistry, and save you time!



203796-03-6

Scifinderⁿ Discovery platform

CAS 🔅 SciFinder'

:

*SciFinderN

Top 6 key searching function

- Reference searching
- Reaction searching
- Substance searching
- Supplier searching
- Sequence searching
- Retrosynthesis

*CAS Formulation *CAS Analytical Methods

Searching for	References	
* All	Search by Keyword, Substance Name, CAS RN, Patent Number, PubMed ID, AN, CAN	, and/or DOI. Learn More
Substances	Enter a query	🖉 Draw
L Reactions	- • Author Name • Enter last name, first name middle name.	×
References		Example: Schubert, J A
🐂 Suppliers	+ Add Advanced Search Field Learn	more about SciFinder ⁿ Advanced Search.
♦ Sequences	CAS Lexicon enables you to browse the CAS Gener substances to build a Reference query with up to 1	
Retrosynthesis		
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May 2, 2023		
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Alerts

Saved

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American Chemical Society



Perform Reference searching

CAS SciFinderⁿ halves the time needed to perform literature reviews*

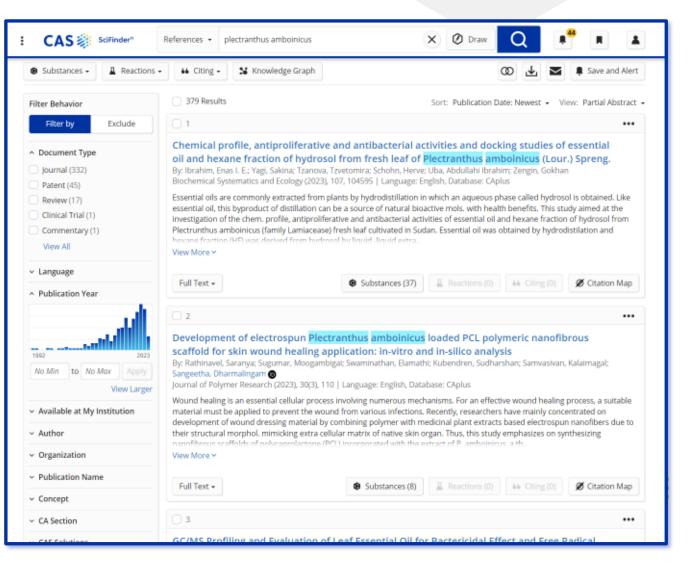
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May 5, 2023			Document lo	dentifie	r				

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Perform literature reviews

CAS SciFinderⁿ halves the time needed to perform literature reviews*

- Keep up to date with the world's published scientific patent and journal literature across multiple disciplines using the most advanced relevance engine for scientific research.
- An easy-to-read display lets user quickly browse reference
- Filters are available to further narrow results...by year, source type, and organization



Reference Det	Concepts			
Substances (6) A Reaction				
Patent	Alzheimer disease	Substances	 Formulations 	
Patent Information Patent Number	Animal gene Modifier: NRG1, NR			
W02007076701	Role: Biological Stu Activity; Therapeuti	135729-61-2	Collagen Formulation: Anticancer Agents	
Publication Date 2007-07-12	Anti-Alzheimer age		Location: Article Page 3, 6	
Application Number VO2006-CN3694	Antidiabetic agents		Purpose: Antitumor agents Target: cancer	
Application Date 2006-12-29	Antitumor agents	Absolute stereoch		
ind Code		C ₁₉ H ₂₄ N ₂ O Palonosetron	Component Function	Amount Reported
1	Cardiac hypertropl	Role: Pharmacolog Use, Biological Stuc	 Group: cyclic dinucleotides stock - solution 	-
ssignee ensun (Shanghai) Science &	Cardiomyocyte Modifier: growth ar		cyclic dinucleotides -	6.67 μg
echnology Limited, China ource	Cardioprotective a	50-18-0	endotoxin-free water solvent	-
Vorld Intellectual Property Organization	Cardiovascular dis	н	Phosphate-buffered saline solutions buffer	-
atabase Information N: 2007:762994 AN: 147:134439	Cell differentiation Modifier: cardiomy		collagen stock solution carrier	3.5-5 mg/mL
Aplus anguage	Cell proliferation Modifier: cardiomy	C ₇ H ₁₅ Cl ₂ N ₂ O ₂ P Cyclophosphar		
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	Controlled-release	Biological Study, Us	View Formulus® Detail ^亿	
© 2021 American (Diabetes mellitus		Location: Article Page 3, 6	

EndNote output

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Document Type Journal (345K) Patent (58K)	Full Text	Download Cancel	Learn more about downloads.	s ((Save Save As Save a Copy Revert	Ctrl+S	; Cottrell, Trisha; Lozano, yagin, S. S.; Arushanyan, E), Richard; Chawla, Sange M.
Review (44K)	2				Share Export		Remick, Daniel touri, Ronald; Kreutz, Rol Tancer, Manuel; Uhde, T
Book (89) View All	By: Schaba Cancer epic				Import Print Print Preview Print Setup Compressed Library (.enlx)	• Ctrl+P	File Folder J.; Ammar, R.; Kluger, J F.; Stager, Joel M. C; El-Sohemy, Ahmed C; El-Sohemy, Ahmed

在 Import File 選擇檔案來源, Import Option 選擇 Reference Manager (RIS),也可將 SciFinderN的文獻檢索結果匯至 Endnote。↔

Allison, Beth J.; Polglase, ...

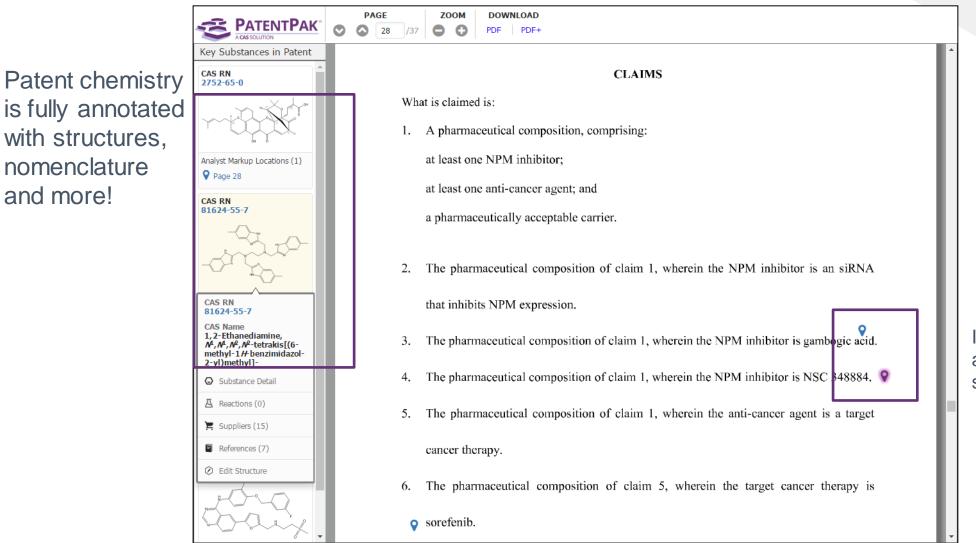
Jonge, R.; Dongiovanni, ... 🖉

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Exit

PatentPak:

Why waste time slogging through dense patent material with direct access to and understanding of the chemistry within the document



Important chemistry locations are identified by CAS expert scientists



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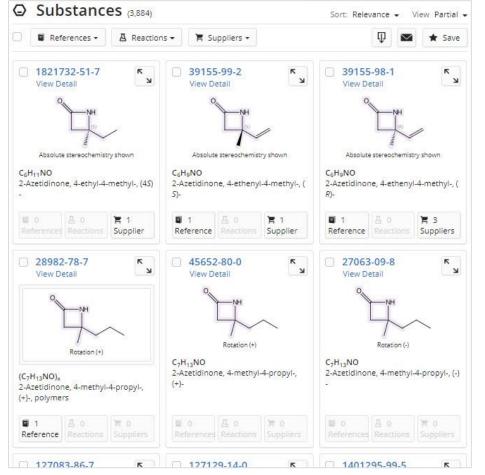
Substance searching

Searching for	Sub	ostance	es				
S• All	Searc	h by Subst	tance Name, CAS RN, Pater	nt Nu	imber, PubMed ID, AN, CA	N, and/or DOI. Learn More	
Substances	Ente	er a query				🖉 Dra	aw 🕻
A Reactions	:	-	Molecular Formula 👻				×
References			Molecular Formula			Examples: C6H6 (C8H8)x C22H26CuN2O5.C2H3N	
📜 Suppliers	# A	AND -	CAS Registry Number	>			×
a suppliers	(+ Add A	Chemical Identifier	>		Learn more about SciFinder ⁿ Advanced Se	earch.
Sequences			Document Identifier Patent Identifier				
Retrosynthesis			Experimental Spectra	>	Proton NMR		
			,	>	Carbon-13 NMR		
			Biological Chemical Properties	> >	Nitrogen-15 NMR		
			Density	>	Fluorine-19 NMR Phosphorus-31 NMR		
Recent Search History			Electrical	>	rhosphorus-si Nimit	View	All Search
May 5, 2023			Lipinski	>			
-			Magnetic	>			

Mine substances and reactions

CAS SciFinderⁿ provides access to the world's most trusted substance resource, CAS REGISTRY[®]

Inform your research with the one true source for authoritatively identifying a chemical substance and its related chemical structures, chemical names, regulatory information, and properties, including the CAS Registry Number[®], as well as reaction schemes, product yields and more.





Substances information

🕁 🗹 📕 Save

Expand All | Collapse All

CAS Registry Number: 106266-06-2 References (13K) Reactions (218) Suppliers (122)

$C_{23}H_{27}FN_4O_2$

4H-Pyrido[1,2-a]pyrimidin-4-one, 3-[2-[4-(6-fluoro-1,2-benzisoxazol-3-yl)-1-piperidinyi]ethyi]-6,7,8,9-tetrahydro-2-methyl- (9CI, ACI)

Key Physical Properties	Value	Condition
Molecular Weight	410.49	-
Melting Point (Experimental)	170 °C	-
Boiling Point (Predicted)	572.4±60.0 °C	Press: 760 Torr
Density (Predicted)	1.38±0.1 g/cm ³	Temp: 20 °C; Press: 760 Torr
pKa (Predicted)	8.07±0.10	Most Basic Temp: 25 °C

Experimental Properties | Spectra

Other Names and Identifiers

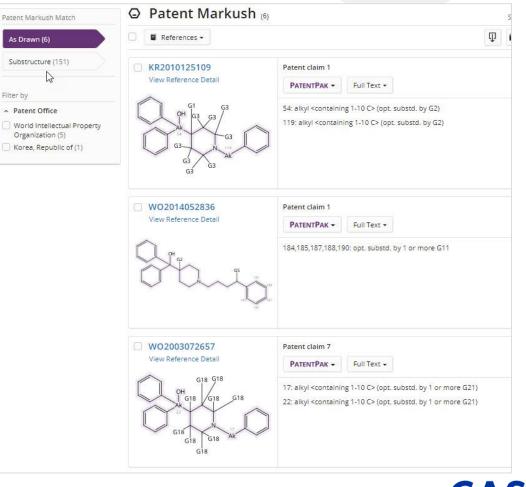
Biological	Chemical	Lipinski	Structure Related	Thermal
Property		Value	Condition	Source
Median Lethal Dose		29.7 mg/k	g Organism: rat; Route: intravenous	(<u>1</u>) APC
vledian Lethal Dose		18.3 mg/k	g Organism: dog; Route: oral	(<u>1</u>) APC
Vedian Lethal Dose		14.1 mg/k	g Organism: dog; Route: intravenous	(<u>1</u>) APC
ADME (Absorption, Distribution, Met	abolism, Excretion) - 16 Sources	See Full T	ext	(2-17) CAS
Half-Life (Biological) - 7 Sources		See Full T	ext	(18-24) CAS
.C50 - 1 Source		See Full T	ext	(25) CAS

Structure Activit	ty Relationsh	nips				📚 🖊 CAS LIFE	SCIENCES
Absorption, Distribution, Metabolism, and Excretion Data						San Cas Life	SCIENCES
Toxicity						San Cas Life	SCIENCES
▼ Target 👻 🔍 Fur	nction 👻 🔻	Parameter 👻 🔻 D	sease 🖌 🛛 Organism 👻				⊾
Target <mark>^ 1</mark>	Function \$	Parameter <mark>^ 2</mark>	Value	Disease	Organism 🗘	Assay	Source
5-HT2A receptors	-	5-HT2C receptor activity	19.7 nM	Schizophrenia	-	View Detail	(1) CAS
Adrenoceptor A1	-	α 1 receptor activity	2.8 nM	Schizophrenia	-	View Detail	(1) CAS
Dopamine D ₃ receptors	-	D3 receptor activity	10.9 nM	Schizophrenia	-	View Detail	(1) CAS
HEK293 cells and Chang liver cells	Antagonist	IC50	>600 ug/ml	Depression	Mouse	View Detail	(2) CAS
HEK293 cells and Chang liver cells	Antagonist	IC50	238.8 ug/ml	Depression	Mouse	View Detail	(2) CAS
Histamine H1 receptors	-	H1 receptor activity	26.1 nM	Schizophrenia		View Detail	(1) CAS
-	-	Adiposity index	Ligand didn't show any significant difference in adiposity index	-	-	View Detail	(3) CAS
-		APO level	17.92 mg/kg	Schizophrenia	-	View Detail	(1) CAS
-	-	AUC	Ligand significantly increased AUC values	-	-	View Detail	(3) CAS
-	-	Behavior	1628.3 cm	-	-	View Detail	(3) CAS
-	-	Behavior	1573.7 cm	-	-	View Detail	(3) CAS
-	-	Behavior	0.21	-	-	View Detail	(3) CAS
-	-	Behavior	0.34	-	-	View Detail	(3) CAS
-	-	Behavior	0.38	-	-	View Detail	(3) CAS
-	-	Behavior	0.28	-	-	View Detail	(3) CAS
-	-	Behavior	0.40	-	-	View Detail	(3) CAS
-		Behavior	0.43	-	-	View Detail	(3) CAS
-	-	Behavior	47.3	-	-	View Detail	(3) CAS
-	-	Behavior	58.8	-	-	View Detail	(3) CAS
-	-	Behavior	2119.17 cm	-	-	View Detail	(3) CAS
-	-	Behavior	56.1	-	-	View Detail	(3) CAS
	-	Behavior	62			View Detail	(3) CAS
-	-	Behavior	73.2			View Detail	(3) CAS
-	-	Behavior	65.8	-	-	View Detail	(3) CAS
-	-	Behavior	1778 cm	-	-	View Detail	(3) CAS
-	-	Behavior	1768.33 cm	-	-	View Detail	(3) CAS
-		Behavior	1937.2 cm	-		View Detail	(3) CAS

Inform IP strategy

CAS SciFinderⁿ reduces the time needed to analyze the IP landscape*

Access industry-leading capabilities like patent Markush searching, and content such as patents that have been chemically annotated by our scientists, so you can stay on top of the technology landscape.



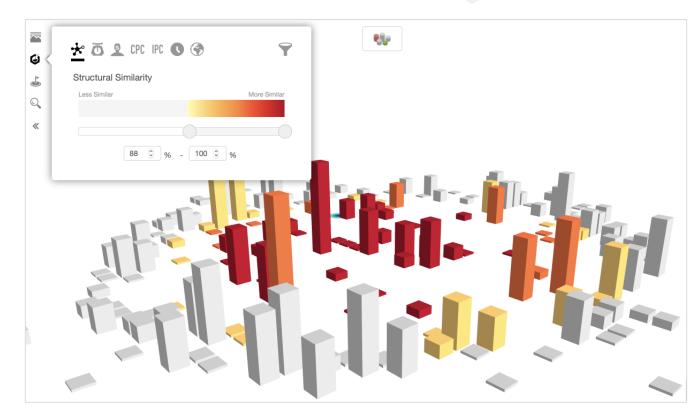


Visualize search results

CAS SciFinderⁿ offers visual context for substance and biosequence result sets

Graphically explore the structural similarity of chemicals compared to one another and the patents associated with them.

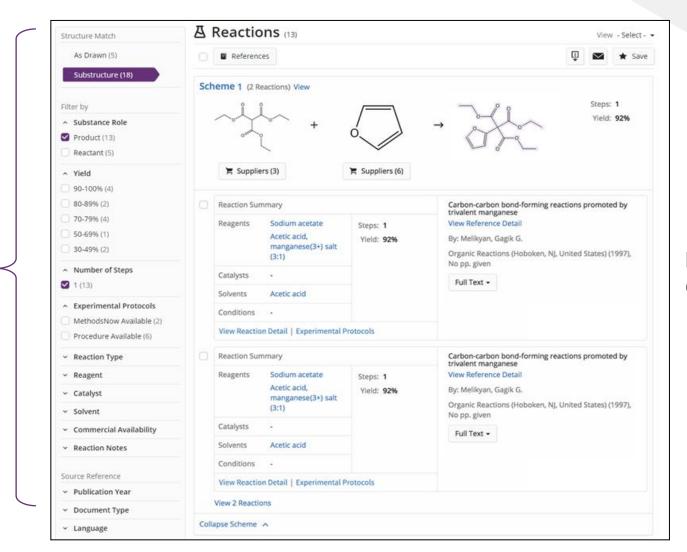
Review visualized biosequence search results and evaluate sequence space from an IP perspective.





Reaction: Information presented to facilitate rapid understanding

Powerful filtering capabilities allow rapid focus



Intuitive information layouts fosters quick comprehension



Design efficient bench strategies and work plans

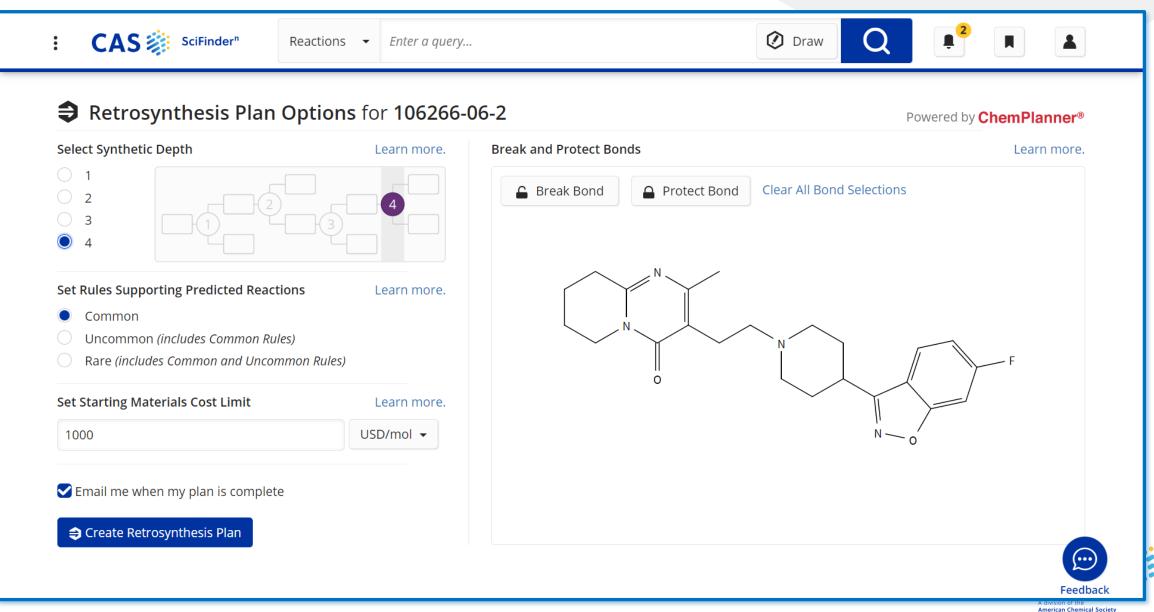
Find practical methods and pathways for production synthesis, extracted directly from the literature.

Identify opportunities for new breakthroughs in synthetic methods.

Synthetic Methods	
Products	Ruthenium, carbonylchloro[2-[1-(hydroxy-кO)-2-naphthalenyl]-1-diazenecarbothioamidato-кN ² ,кS] (triphenylphosphine)-, Yield: 80%
Reactants	Carbonylchlorohydrotris(triphenylphosphine)ruthenium
	2-(1-Oxo-2(1 <i>H</i>)-naphthalenylidene)hydrazinecarbothioamide
Solvents	Benzene
Procedure	 Add the appropriate ligand (0.023-0.029 g, 0.1 mmol) in 1:1 M ratio to a solution of Ruthenium(II) complex (0.1 g, 0.1 mmol) in benzene (20 cm³). Heat the mixture under reflux for 5 h on water bath. Concentrate the resulting solution to 3 cm³. Precipitate the product by the addition of petroleum ether (60-80 °C). Recrystallize the mixture using CH₂Cl₂. Dry the residue under vacuum to obtain the product.
Transformation	Aromatization of Six-Membered Rings Coordination of a Metal to Carbon and Heteroatom Ligand Substitution
haracterization Data	a
✓ Ruthenium, ca	rbonylchloro[2-[1-(hydroxy-κO)-2-naphthalenyl]-1-diazenecarbothioamidato-κN ² ,κS] e)-



Retro-Synthetic Planning



CAS SciFinder Discovery Platform for Synthetic Planning

CAS SciFinderⁿ is a catalyst for unlocking research productivity

- Synthesize new molecular innovations
- Scale up levels of production synthesis
- Identify opportunities for new breakthroughs in methods development

diversity of alternatives and evidence for the planned synthetic route Retrosynthesis Predicted Results ON (Steps Overview 🚖 Save Plan Information Estimated Yield: 37% Overall Price: \$8,003.62 (USD per 100 grams, (A) Commercially Available: A, B, C Plan Options Synthetic Depth: 3 (日) (###) Predicted Rules: Common Break & Protect Bonds: No Max Yield **Edit Plan Options** 100% Scoring Profiles **E** (##) Complexity Reduction @ 2 (###) Convergence @ 2 (###) Retrosynthesis Step Key Evidence Hover on the options below to



Researchers can clearly understand the

CAS SciFinder Discovery Platform for Molecular Biologists

Enhancing biological research with biosequence searching in SciFinderⁿ

UNMATCHED CONTENT

Newly enhanced collection of 500M+ proteins and nucleotides from 60+ patent authorities dating back to 1957

SPECIALIZED TECHNOLOGY

Multiple search options to support your sequence search needs, including BLAST, CDR search for antibody and T-cell receptors, and Motif search

HUMAN EXPERTISE

Human and machine-curated biosequence collection including sequences not found in electronic sequence listings and other databases

All	Enter a protein or nucleotide	e string, or upload a .bit or .	fasta file. Learn more abou	t Biosequences.	
	BLAST CDR	Motif	Upload Sequence	Clear Search	
Substances Reactions References Suppliers Biosequences	ATCGATCCAGATCGACTAGC	TACGATCGATCAGCTAGCTAC		TACGGGCTAG	Sequence Type: Nucleatide Protein Search Within: Nucleatides Proteins Search Databases: CAS Biosequences NCBI Public Database Limit Total Sequence Results to
	Advanced Biosequence Se Sequence Identity % •	earch Adjust Pa Match with Gaps? Yes No	Gap Costs	ces Reset All	100 Q Start Biosequence Sea
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	BLAST Algorithm	E-Value 😐	Exclude Low Complex	kity Regions 😐	
			No		

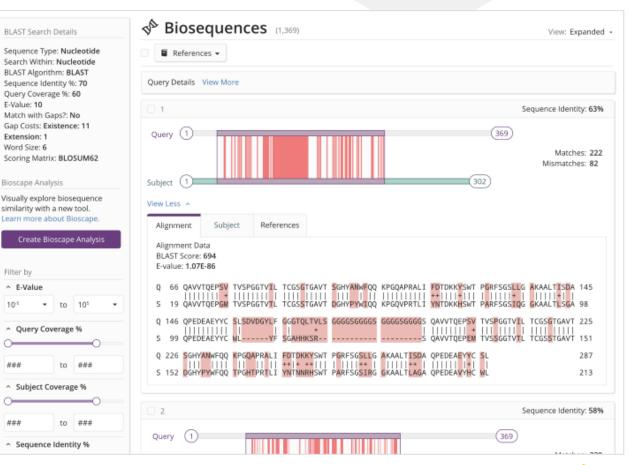


Conduct comprehensive biologics research

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Uncover connections between biosequences and patent and non-patent* literature that you can't see anywhere else.

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*Coming soon

Find commercially available chemicals

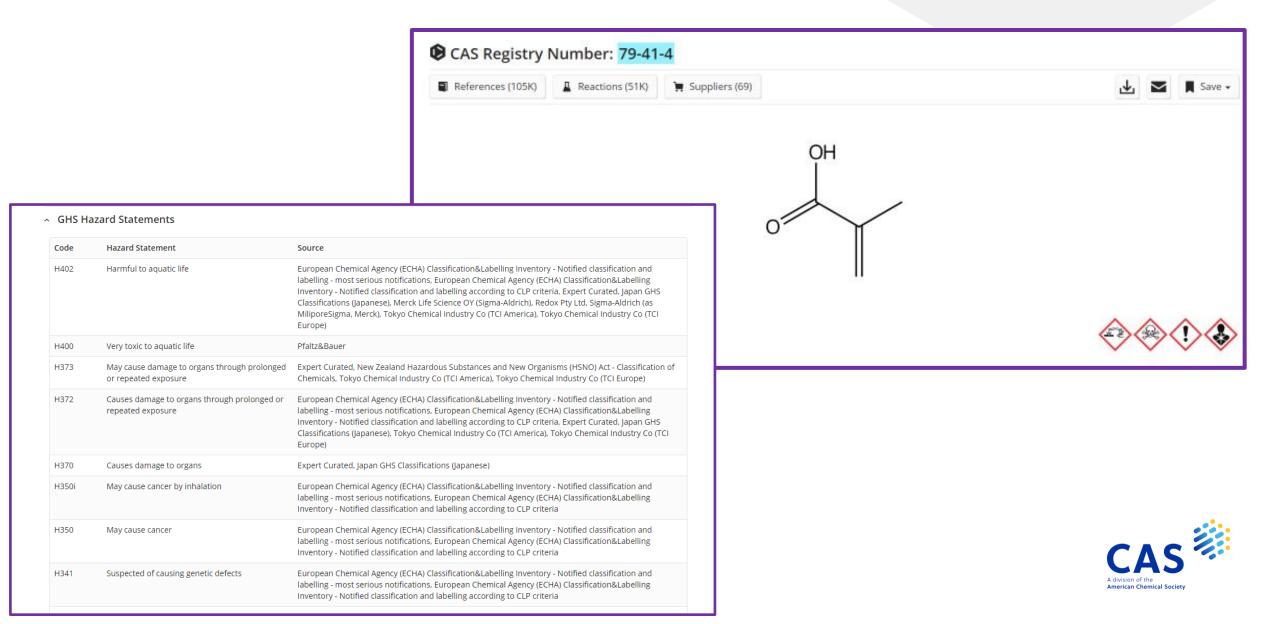
CAS SciFinderⁿ contains the market-leading index of chemicals from worldwide suppliers

Learn which suppliers have your needed materials with information on available quantities and prices for millions of chemical products from hundreds of vendors.

Filter Behavior	📜 Suppliers 🛛	35)		Sort: Ships Within
Filter by Exclude				
 Preferred Suppliers 				
No Preference (85)	Supplier	Substance	Details	Availability
^ Supplier	□ 1			
KANTO CHEMICAL (5)	1PlusChem (1)	1125-88-8 Banzaldabuda Dimathud	Purity 95-98%	USD 40
ALDRICH (3)	1Pluschem Product List	Benzaldehyde Dimethyl Acetal	Quantity	Maintained in stock Ships within 1 week
ASW MedChem Product List	United States	Order Number: 1P0034Y6	100g	· ·
(3)	Updated Mar 31, 2021			View Detail
AK Scientific Product Catalog (2)	ی ک			Order from Supplier 🗹
Alchem Pharmtech Product List (2)	2			
View All	ASB	1125-88-8	Purity	USD 14
Purity	A2B Chem Product List United States	Benzaldehyde dimethyl acetal	95-98% Quantity	Maintained in stock
≥99% (2)	Updated Mar 22, 2021	Order Number: AB45582	100g	Ships within 1 week
95-98% (63)	ی ک		1005	View Detail
				Order from Supplier I
90-94% (3)				
Quantity	3			
Milligrams (6)	aablocks	1125-88-8 Benzaldehyde dimethyl	Purity 95-98%	USD 16
Grams (51)	AA BLOCKS LLC Product	acetal	Quantity	Maintained in stock Ships within 1 week
121(27)	List	Order Number: AA0034EO		



GHS Hazard Statements



CAS SciFinder Discovery Platform for Analytical Chemists

CAS Analytical Methods is a single source for in-depth scientific methods

- Save time with easy access to method details from millions of disclosed procedures
- Compare analytical methods sideby-side to understand key similarities and differences
- Organize experimental details in an easy-to-read format
- Get materials, instrumentation, and conditions

Return to Advanced Search	Results (2	24)	Sort Relevance -
Analyte] Palmitic acid (24)			① Compare (0/3)
Stearic acid (22) Oleic acid (21) Arachidonic acid (19) Linoleic acid (18) View All	liquid chr CAS MN: 2-1	of Palmitic acid in Blood pla omatography-mass spectr 07-CAS-39800 Is & Instructions	asma by High-performance ometry ① Add to Compare
			· · · ·
Matrix	Analyte	Palmitic acid; Heptadecanoic ac	id; Fatty acids
Blood plasma (24) Blood serum (2)	Matrix	Blood plasma	
	Other	Material: Ascentis C18 (2.7 µm,	2.1 x 150 mm) column
Method Category	Materials		
ſechnique	Method	Bioassay	
(ear	Category		
	Technique	High-performance liquid chrom Extraction	atography-mass spectrometry;
	Equipment Used	Liquid chromatography (LC) sys	tem; mass spectrometer (MS); Speed Vac



Test and validate innovations

Equipment Used

Search and filter hundreds of thousands of analytical methods extracted from published references to find the best option for your work.

HPLC System, Merck Hitachi Ultraturrax, T25 basic, IKA Werke UV-VISIBLE Spectrophotometer, V-630, Jasco, Japan Homogeniser, A10, IKA Rotavapor, Heidolph Vacuum system, Buchner

Conditions

Chromatographic

Mobile phase, acetonitrile/methanol/dichlorom ethane (75:21:4 v/v/v) and 0.1% BHT + 0.05% triethylamine (MeOH + 0.05 M ammonium acetate); flow rate, 1.5 mL/min; injection volume, 20 µL, temperature, 20 °C

Instructions

Sample extraction by traditional method

1. Collect fresh tomato samples (fresh matter, juices, purees, pulp, concentrates and sauces) homogenize coarse pieces in an IKA Werke Ultraturrax (T25 basic) model A10 laboratory homogenizer.

2. Weigh amount of homogenized sampleand add 90 ml of a mixture of THF - methanol 1:1 (v/v) and of magnesium carbonate.

3. Filter the solution with a Buchner vacuum system and wash with a THF - methanol mixture.

- 4. Separate the phases in an amber separating funnel after the addition to the mixture of 50 ml o f 40 60 °C petroleum ether and 50 ml of NaCl 10% aqueous solution.
- 5. Wash THF methanol water phase twice with 50 ml of petroleum ether.
- 6. Carry out filtration on anhydrous sodium sulphate of the ether aliquots containing the analyte and collection of the same in a rotavapor vial.
- 7. Evaporate the ether phase up to almost total dryness using a Rotavapor.
- 8. Retrieve and collect the extract with a solution of THF + 0.1% of BHT in a 20 ml amber vial.



CAS SciFinder Discovery Platform for Formulation Scientists

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FASTER ITERATION

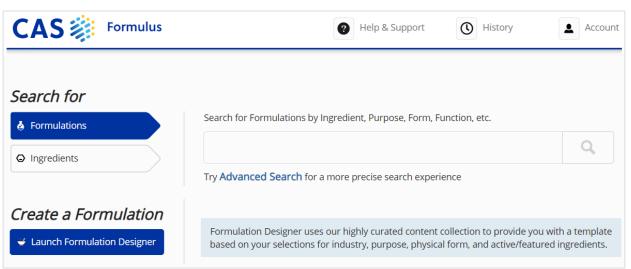
Understand a formulation's effectiveness with quick access to the best information for active ingredients and excipients

MORE EFFICIENCY

Get insights beyond literature and interact with formulations data curated from patents, journals, and product inserts more effectively

COMPREHENSIVENESS

Evaluate ingredients, find alternative suppliers, and explore regulatory requirements in one easy interface





Develop differentiating formulations and manufacture-to-scale

Evaluate a formulation's effectiveness with quick access to the best information for active ingredients and excipients.

Formulations (1,530,182)	Suggested References			Sort: Relev			
-ilter by				۵			
 Industry Agrochemical Cosmetics & Personal Care Pharmaceutical Purpose Hair dyes (115K) Pharmaceutical formulations (79K) Drug delivery systems (68K) Cosmetics and Personal care products (52K) Antitumor agents (42K) View All Physical Form Tablets (187K) 	Montelukast Sodium Chewable Tablets: Antiasthmatics Location: Article Table 1 Purpose: Antiasthmatics Target: Asthma, Homo sapiens Delivery Route: Oral drug delivery systems Physical Form: Tablets						
	Component Cyclopropaneacetic acid, 1- [[[(1 <i>R</i>)-1-[3-[(1 <i>E</i>)-2-(7-chloro-2- quinolinyl)ethenyl]phenyl]-3-[2-(1- hydroxy-1-	Function -	Amount Reported 5 mg	Journal Preparation and evaluation of montelukast sodium chewable tablets using modified karaya gum Pharmacia Sinica			
	methylethyl)phenyl]propyl]thio]m ethyl]-, sodium salt (1:1)			Language: English View Reference Detail			
Solutions (121K) Liquids (68K) Capsules (43K)	Sodium carboxymethyl starch Mannitol	disintegrant excipient	10 mg 307.5 mg				
Gels (39K) /iew All	modified karaya gum Additional components reported	diluent	150 mg				
 Information Included Component Amount (1.4M) 	View Formulation Detail						





1. Revlimid \rightarrow multiple myeloma

2. Humira

. Humira	藥品	2022 銷售額 _(美元)	2021 銷售額 (美元)	成長率	公司	適應症		
	Comirnaty (tozinameran)	408億	403億	1.2%	Pfizer/BioNTech	COVID-19 mRNA疫苗		
	Spikevax (elasomeran)	218億	177億	23.2%	Moderna	COVID-19 mRNA疫苗		
	Humira (adalimumab)	216億	212億	1.9%	AbbVie	類風濕性關節炎		
	Keytruda (pembrolizumab)	210億	172億	22.1%	Merck & Co.	癌症免疫療法		
	Paxlovid(Nirmatrelvir/Ritonavir)	190億	1億	18900.0%	Pfizer	COVID-19口服抗病毒藥物		
	Eliquis (apixaban)	118億	108億	9.3%	BMS / Pfizer	抗凝血劑		
	Biktarvy (bictegravir, emtricitabine, tenofovir alafenamide)	104億	86億	20.9%	Gliead	HIV-1抗反轉錄病毒複方製劑		
	Eylea (aflibercept)	103億	99億	4.0%	Bayer/Regeneron	黃斑部退化病變		
	Stelara (ustekinumab)	101億	96億	5.2%	Janssen Biotech	中至重度斑塊性乾癬		
	Revlimid (lenalidomide)	100億	129億	-22.5%	BMS	多發性骨髓瘤 (MM)		
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Accelerate breakthroughs and get discoveries to market faster

Titer Liu Senior Account Consultant Tliu2@acs-i.org

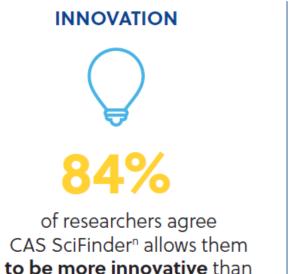




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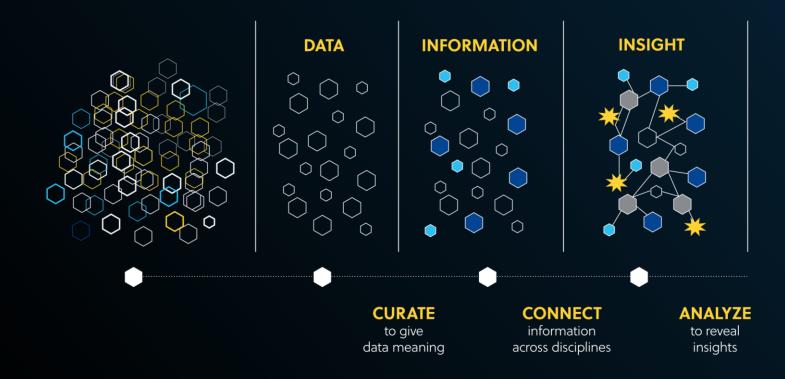
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