

CAS SCIFINDER DISCOVERY PLATFORM™

BETWEEN IDEAS AND ANSWERS ARE CONNECTIONS THAT MATTER

Bring your research ideas to life faster
with the CAS SciFinder Discovery Platform.

CAS

A division of the
American Chemical Society



Experience everything the CAS SciFinder Discovery Platform has to offer

As the volume of scientific information continues to grow, finding exactly what you need—the connections amid the chaos—can be challenging. Whether you are reviewing the literature for funding applications and manuscripts, developing experimental plans for new projects, or searching for collaborators to help you advance the research in your field, the CAS SciFinder Discovery Platform speeds your connection to relevant insights.

"CAS SciFinder makes the whole process of research and writing more efficient. To do great, you need to be up-to-date!"

Ibrahim Alfurayj
Graduate Student / Post Doc,
Case Western Reserve
TechValidate, TVID: A89-6FB-4ED

"I wouldn't be able to do my job without it."

Chip Nataro
Faculty, Lafayette College
TechValidate, TVID: 5A5-CE3-9C7

"CAS SciFinder is like air for my research... you don't know how good it is until you don't have it."

Marcelo D Preite
Faculty, uc.cl
TechValidate, TVID: 910-7F8-D86

"CAS SciFinder helps me design my synthetic plans and keep up-to-date on my research field. I haven't found any other product able to do this."

Laura Morelli
Scientist, University of Milan
TechValidate, TVID: FA9-363-5C8

The CAS SciFinder Discovery Platform is designed to support multiple stages and types of scientific research. It combines task-specific information solutions and tools, including CAS SciFinder®, retrosynthetic planning, sequences, bioactivity, visualizations, CAS Formulus®, CAS Analytical Methods™, and ChemZent®, making it the most complete source of scientific information in the world.

The CAS SciFinder Discovery Platform supports the foundational scientific needs of your research community.

- Leverage the most advanced relevance engine in the industry and discover more relevant and timely information faster.
- Access one source for all substance-related information and plan experiments with confidence.
- Identify and optimize synthetic routes through a full retrosynthetic analysis of known and undisclosed substances.
- Find the best research protocols by searching and comparing hundreds of thousands of published scientific methods.
- Uncover information about active ingredients and excipients that guide the design of new formulations.
- Explore the pharmacology of drug-target-toxicity interactions with SAR and ADMET analysis.
- Search and analyze protein and nucleic acid sequences and related references that assist in life science research.
- Review historical insights from Chemisches Zentralblatt for comprehensiveness in chemistry literature reviews.

Connect to relevant and timely information

The challenge to retrieve relevant and timely information from an ever-increasing, vast collection of complex scientific literature can seem insurmountable. With the most advanced relevance engine in the industry, CAS SciFinder helps you search faster and smarter, anticipating your information needs to accelerate your research.

Our global network of scientists extracts key information from the world's published scientific literature daily, making connections only possible with the combined power of expert human analysis and advanced data technology. Worried about missing the latest journal publications or patents in your field of research? With CAS SciFinder, you won't miss a thing.

"CAS SciFinder makes finding relevant publications much faster, giving more time for in-lab experimentation."

Graduate Student / Post Doc, Educational Institution
TechValidate, TVID: F88-FA8-815

"The Alerts that I have set up to keep me up-to-date with the publications in my field is one of CAS SciFinder's greatest tools."

Graduate Student / Post Doc,
Educational Institution
TechValidate, TVID: C12-8A1-8B8

CAS SciFinder® References Draw 🔍

Return to Home

References search for "novel coronavirus peptide"

Substances Reactions Citing Knowledge Graph

Filter Behavior Filter by Exclude 4,463 Results 1

Sort: Relevance View: Part

Publication Year

1945 1988 - 2022 (2,491) 2022

German (27K)

Structure-based peptide vaccine against novel coronavirus 2019 (SARS-COV-2):

Sharma, Ashish R.; Patra, Prasanta; Ghosh, Pratik; Sharma, Garima; Patra, Bidhan C.; Chiranjib

Journal of Medicinal Chemistry (2020), 63(18), 618-631 | Language: English, Database: CAPLUS and MEDLINE

SARS-COV-2 emerged which is responsible for the recent outbreak in Wuhan, China. Genetically, it is MERS-CoV. The situation is getting worse and worse, therefore, there is an urgent need for designing a vaccine against the SARS-COV-2. Here, we characterized spike glycoprotein to obtain immunogenic or Histocompatibility Complex-(MHC) I and 3 MHC-II epitopes, having antigenic properties. These epitopes can be used to build vaccine components and mol...

Substances (0) Reactions (0) Citing (229) Citation Map

Antagonistic peptides and novel coronavirus for their preparation

By: Huang, Kun; Yang, Chen; Chen, Hong; Shen, Ziwei

Save Results and Create Alert

In CAS SciFinder®, you can save your search and any selected answers. This allows you to easily pick up where you left off.

Name

Save Options

- ☒ Query Only
- ☐ Selected Answers
- ☐ All Answers (up to 20,000)

Alert Frequency

- ☒ No Alerts
- ☐ As Available
- ☐ Weekly
- ☐ Monthly

Organize and filter your saved items by making new tags or using previously created tags.

Add Existing Tags (Optional)

New Tag (Optional)

Tag Color

Use advanced filters to narrow your results by document type, author, organization, publication year, and more. Set up Alerts to be notified when new research is published in your field.

CAS SciFinder® References Draw 🔍

Citation Map for Structure-Based Drug Design and Structural Biology Study of Novel Nonpeptide Inhibitors of Severe Acute Respiratory Syndrome Coronavirus Main Protease

By: Lu, I-Lin; Mahindroo, Neeraj; Liang, Po-Huang; Peng, Yi-Hui; Kuo, Chih-Jung; Tsai, Keng-Chang; Hsieh, Hsing-Pang; Chao, Yu-Sheng; Wu, Su-Ying

Journal of Medicinal Chemistry (2006), 49(17), 5154-5161 | Language: English, Database: CAPLUS and MEDLINE

Full Text

A novel coronavirus associated with severe acute respiratory syndrome

By: Ksiazek, Thomas G.; Erdman, Dean; Goldsmith, Cynthia S.; Zaki, Sherif R.; Peret, Teresa; Emery, Shannon; Tong, Suxiang; Urbani, Carlo; Comer, James A.; Lim, Wilina; et al

New England Journal of Medicine (2003)

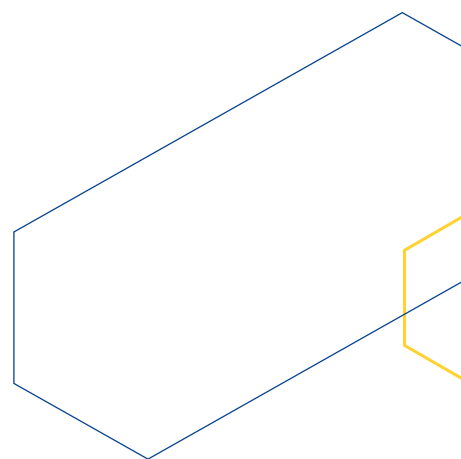
Expand Citations Create Map

Extend your exploration of relevant scientific literature with a Citation Map of research cited by (backward) and citing (forward) a publication of interest.

Plan your experiments with confidence

Your cutting-edge research requires authoritative, high-quality information on substances and chemical reactions. With data on more than 250 million organic and inorganic substances and 130 million single and multi-step reactions, CAS SciFinder is your one true source to identify a substance and its related chemical structure, names, regulatory information, and properties, as well as reaction schemes, step-by-step experimental procedures, detailed reaction conditions, and yields.

Your successful chemical synthesis starts with a detailed synthetic plan, but uncovering, comparing, and piecing together reaction pathways can be challenging. For known substances and those not previously reported in the literature, CAS SciFinder will perform a full retrosynthetic analysis to help you identify synthetic routes to fit your needs. Determine price, chemical suppliers, step-by-step methods, product yields, and more— all before you head to the lab.



"I find the retrosynthesis capability of CAS SciFinder really unique and extremely helpful to design my synthesis routes."

Graduate Student / Post Doc, Educational Institution
TechValidate, TVID: 7AA-C7C-71D



"Being able to search for journal articles, reactions, and substances all on one platform is very useful. I also like being able to search using a chemical structure, which isn't something you can do with just Google."

Graduate Student / Post Doc, Educational Institution
TechValidate, TVID: 790-B0F-A51

The screenshot shows the CAS SciFinder interface. The main window is titled 'Substances search for drawn structure'. It features a search bar at the top with the text 'Enter a query...'. Below the search bar, there are tabs for 'References', 'Reactions', and 'Suppliers'. The 'Substances' tab is selected. The search results are displayed in a grid of chemical structures, each with its CAS Registry Number and molecular formula. A 'CAS Draw' window is overlaid on the right, showing a chemical structure being drawn with a toolbar and a 'Molecular Formula' field.

Find detailed substance information by searching with a chemical name, CAS Registry Number®, or draw exactly the structure you want to find with built-in, easy-to-use structure editors.

The screenshot shows the CAS SciFinder interface for a retrosynthesis plan. The main window is titled 'Retrosynthesis Plan for drawn structure'. It features a search bar at the top with the text 'Enter a query...'. Below the search bar, there are tabs for 'References', 'Reactions', and 'Suppliers'. The 'Retrosynthesis' tab is selected. The search results are displayed in a grid of chemical structures, each with its CAS Registry Number and molecular formula. A 'CAS Draw' window is overlaid on the right, showing a chemical structure being drawn with a toolbar and a 'Molecular Formula' field.

Plan your synthesis of a novel or known substance with a retrosynthetic analysis powered by computer-aided synthesis design.

Seamlessly investigate sequences and bioactivity data

Integrated with the world's most comprehensive collection of chemical reactions, substances, and indexed scientific literature, you'll find one of the largest, most comprehensive sources of sequence and bioactivity data. This information helps ensure you're aware of the most recent research to inspire new ideas.

The extensive collection of bioactivity data consists of more than 10 million truly unique substances with more than 45 million bioactivity measurements and 90,000 defined targets, including all human targets. Explore the pharmacology of drug-target-toxicity interactions with SAR and ADMET analysis to uncover novel targets for therapeutic intervention and gauge the safety of unique compounds. The sequence functionality within CAS SciFinder enables a simultaneous query of journals, public databases, patents, and more, saving time and ensuring thoroughness in your literature searches. Perform BLAST, CDR, and Motif searches across more than 700 million protein and nucleic acid sequences in the database, helping you identify the most critical information for your research.



Structure Activity Relationships

CAS LIFE SCIENCES

Absorption, Distribution, Metabolism, and Excretion Data

CAS LIFE SCIENCES

Toxicity

CAS LIFE SCIENCES

Ligand

Target

Function

Parameter...

Value

Disease

Organism

Clear All Filters

Ligand	Target	Function	Parameter	Value	Disease	Organism	Assay Information
2460476-35-9	GLP-1R	Inhibition	IC50	0.54 nM	Malaria	-	View Detail
2460476-35-9	GLP-1R	Inhibition	IC50	0.75 nM	Malaria	-	View Detail
2460476-35-9	GLP-1R	Inhibition	IC50	21 nM	Malaria	-	View Detail
2460476-35-9	GLP-1R	Inhibition	IC50	>25,556 nM	Malaria	-	View Detail
2460476-35-9	GLP-1R	Inhibition	Selectivity	>47,326	Malaria	-	View Detail
2460476-35-9	GLP-1R	Inhibition	ED50	10 mg/kg	Malaria	Mouse	View Detail
2460476-35-9	GLP-1R	Inhibition	ED90	30 mg/kg	Malaria	Mouse	View Detail
2460476-35-9	GLP-1R	Inhibition	IC50	84 nM	Malaria	Human	View Detail

Prev

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3

4

5

...

325288

Next

Go to Page:

###

Review structure-activity relationship data to identify content and access details specific to a ligand, target, or disease.

CAS

SciFinder[®]

Substances

Enter a query...

Draw

Search

Star

Clock

User

Return to Home

BLAST Search Details

Sequence Type: Protein

Search Within: Proteins

BLAST Algorithm: BLASTp-short

NCBI Included: No

Alignment Identity: -

Query Coverage: 90%

E-Value: 10

Match with Gaps?: No

Gap Costs: Existence 9

Extension 1

Word Size: 2

Bioscape Analysis

Visually explore sequence similarity with a new tool.

[Learn more about Bioscape.](#)

Create Bioscape Analysis

Filter by

E-Value

0 to 10⁶

Biosequences

(1,000)

Sort: Subject Coverage

View: Expanded

References

Download

Query Details

TFTSDLSKQMEEEAVRLFIEXLKNGGPS

View More

801

Alignment Identity: 96.43%

Query

1

28

Subject

1

654

Matches: 27

Mismatches: 1

View Less

Alignment

Subject

References

Alignment Data

BLAST Score: 200

E-Value: 2.52855e-20

Q

1

TFTSDLSKQMEEEAVRLFIEXLKNGGPS

28

S

620

TFTSDLSKQMEEEAVRLFIEWLKNGGPS

647

Easily find regions of local similarity between protein and nucleotide sequences using the BLAST search capability within CAS SciFinder.

Learn from the experience of other scientists

Whether you are researching an established process to follow, seeking to understand how to produce safe and effective products, or searching for historical chemistry insights, the CAS SciFinder Discovery Platform provides the integrated solutions you need.

The screenshot displays the CAS Analytical Methods web interface. At the top, there's a search bar with the text 'Browse: Biomarker Medicine Assay'. Below the search bar, the 'Results' section shows 11278 results, sorted by Relevance. A sidebar on the left contains filters for Analyte, Matrix, Method Category, Technique, and Year. The main content area displays a detailed entry for 'Analysis of Dehydroepiandrosterone in Blood plasma by Solid phase extraction'. This entry includes the CAS number (2-111-CAS-270275), a 'View Details & Instructions' button, and a 'Full Text' dropdown menu. The details section lists the Analyte (Testosterone; Dehydroepiandrosterone sulfate; Dehydroepiandrosterone; Estradiol; 7α-Hydroxy-DHEA; Androstenedione; Androstenediol; Dihydrotestosterone; Estrone), Matrix (Blood plasma), Other Materials (Reagent: Methanol; Ethyl acetate; N-Methyl-N-(trimethylsilyl)trifluoroacetamide; Dithioerythritol; Ammonium iodide; Buffers), Method Category (Biomarker Medicine Assay), Technique (Electron ionization mass spectrometry; Quadrupole tandem mass spectrometry; Gas chromatography; Solid phase extraction), Equipment Used (Microwave oven; GC system; Triple quadrupole mass spectrometer), and Source (Profiling of steroid metabolic pathways in human plasma by GC-MS/MS combined with microwave-assisted derivatization for diagnosis of gastric disorders). The source is attributed to Lee, Wonwoong; Lee, Hyunjung; Kim, You Lee; Lee, Yong Chan; Chung, Bong Chul; Hong, Jongki, published in the International Journal of Molecular Sciences (2021), 22 (4), -. MDPI AG. A 'View in SciFinder®' link is also provided.

A single-source discovery platform for in-depth scientific methods, CAS Analytical Methods™ will help you discover the best scientific process to follow. Search hundreds of thousands of methods across multiple fields of study, giving you a comprehensive tool for comparing published scientific methods and techniques.

"CAS Analytical Methods has made things easier. Easier to find several alternatives and their advantages."

Faculty, Educational Institution
TechValidate, TVID: 76E-EE8-3B0

The screenshot displays the CAS Formulus interface. On the left, a sidebar contains filters for Industry, Purpose, Information Included, Document Type, Organization, and Publication Year. The main area shows a 'Laundry Detergent Composition' with a table of components and their functions. A 'PATENT' sidebar on the right provides details about the patent, including the assignee and language. The 'Formulation Detail' section on the right shows the 'Liquid Laundry Detergent Composition: Laundry Detergents' with a table of formulation ingredients and their functions.

Component	Function	Amount Reported
Group: Laundry detergents	laundry detergent	1.5 g/L
Water vapor	-	-
Sodium silicate	filler, coating agent	6.0 wt %
Cosmetic fragrance products	perfume	0.3 wt %
Zeolites, synthetic	-	2.5 wt %
Additional group components reported		
Water	solvent	800 mL

Component	Function	Amount Reported	Optionality
Fatty alcohols, ethoxylated	-	5-15 %	Mandatory
Polyoxyethylene lauryl ether sodium sulfate	-	5-15 %	Mandatory
Soaps	-	5-15 %	Mandatory
Phosphates	-	<5 %	Mandatory
Enzymes	-	-	Mandatory
Group: Cosmetic fragrance products	fragrances	-	Mandatory
Group: Preservatives	preservatives	-	Mandatory

With CAS Formulus® you have access to the world's leading collection of formulations, leading you to insights that go beyond literature. Understand a formulation's origin and effectiveness with access to the best information for active ingredients and excipients. Evaluate ingredients and manufacturing processes; and explore regulatory requirements in one easy interface.

The screenshot displays the CAS SciFinder interface. The top navigation bar includes the CAS logo, SciFinder logo, and search options. The main search results are for 'References search for "Pasteur, L." Author Name'. The results are filtered by 'Substances' and 'Reactions'. The first result is 'On grape acid' by PASTEUR, L., published in Chemisches Zentralblatt (1849), 20(46), 731-732. The second result is 'On the aspartic acid and malic acid' by PASTEUR, L., published in Chemisches Zentralblatt (1851), 22(49), 769-772. Both results include machine-translated English abstracts and the original German versions.

On grape acid
 By: PASTEUR, L.
 Chemisches Zentralblatt (1849), 20(46), 731-732 | Language: German, Database: CHEMZENT
Machine Translated: The harvested grapes acid has been of KESTNEK detected after the discovery but never again. The process has in one quantity of this acid, received from the detector itself bekam with envelope of polarization appa Rates proved, that it consists of two different acid ", of which one to the right, the other to the left deflects. This capacity corresponding to designates the same said first Dextroracemsaure, the second Laevoracemsaure (Acide dextrora-cemique et Uvoracemique). The right ahlenkende acid liess is in no property of the wine acid different. The Laevoracemsaure and their salts have now ...
 View More

On the aspartic acid and malic acid
 By: PASTEUR, L.
 Chemisches Zentralblatt (1851), 22(49), 769-772 | Language: German, Database: CHEMZENT
Machine Translated: In its final form of embodiment of malic acid and asparagine acid has Pasteur already indicated, that both the capacity have Polarisationebene deflecting and that this property by all compounds of these acids through fortplanze. At the same time bemerkle the same, that the natural fumaric acid, such as by distillation of malic acid obtained is not this property ltheilen. At that time was DESSAIGNES, that said acidic fumaric acid ammonia in aspartic acid uiuwundelii remove. Connecting the mutual

ChemZent® is the only online source of Chemisches Zentralblatt, with machine-translated English abstracts and the original German versions. Indexed to fit seamlessly into CAS SciFinder workflows, this comprehensive source features more than 800,000 documents and over 3 million abstracts.



CAS connects the world's scientific knowledge to accelerate breakthroughs that improve lives. We empower global innovators to efficiently navigate today's complex data landscape and make confident decisions in each phase of the innovation journey. As a specialist in scientific knowledge management, our team builds the largest authoritative collection of human-curated scientific data in the world and provides essential information solutions, services, and expertise. Scientists, patent professionals, and business leaders across industries rely on CAS to help them uncover opportunities, mitigate risks, and unlock shared knowledge so they can get from inspiration to innovation faster. CAS is a division of the American Chemical Society.

Connect with us at cas.org

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