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As the volume of scientific information continues to grow, finding exactly what you need—the connections amid the chaos—can be challenging. Whether you're 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, CAS SciFinderⁿ speeds your connection to relevant insights.

86%

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

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

Chip Nataro
Faculty, Lafayette College
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**"CAS SciFinder[®] is like air for my research...
you don't know how good it is until you
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Marcelo D Preite
Faculty, Pontifical Catholic University of Chile
TechValidate, TVID: 910-7F8-D86

**"CAS SciFinder[®] is faster in
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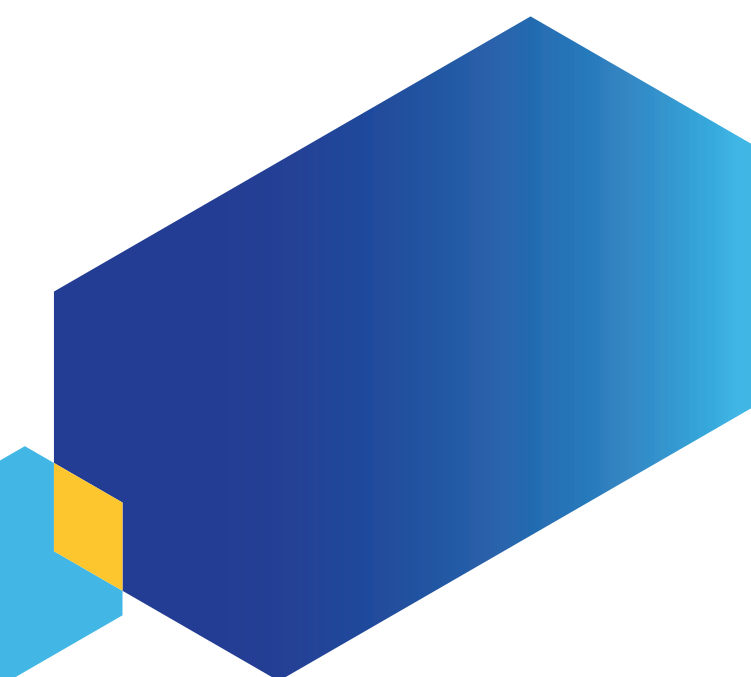
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You face an almost insurmountable challenge to retrieve relevant and timely information from the vast and complex scientific literature—the proverbial needle in the haystack. With the most advanced relevance engine in the industry, CAS SciFinder[®] searches faster and smarter, anticipating your information needs to accelerate your research.

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Graduate Student / Post Doc, Educational Institution
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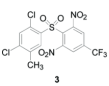
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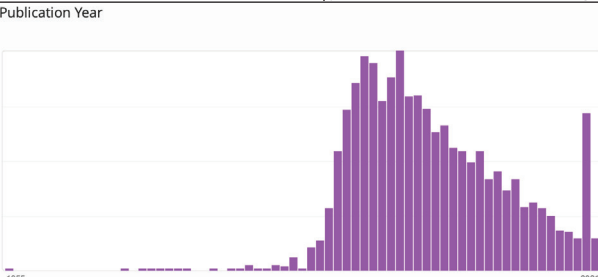
Structure-Based Drug Design Nonpeptide Inhibitors of Se Main Protease
By: Lu, I-Lin; Mahindroo, Neeraj; Liar Hsing-Pang; Chao, Yu-Sheng; Wu, Su
Journal of Medicinal Chemistry (2006) MEDLINE



followed by the testing of potential c The core structures of these two hits Twenty-one analogs derived from th

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Publication Year



1955 - 2021 (3,421)

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Citation Map

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

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 (2020)

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)
 Cited by 2,549

Citation Map Key

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- References Citing Root Document

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Plan your experiments with confidence

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Graduate Student / Post Doc, Educational Institution
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Click and drag to select objects. Ctrl-click to select or deselect individual objects.

Enter a CAS RN, SMILES or InChI

Reaction Role

- ☐ Product (2)
- ☐ Reactant (2)
- ☐ Catalyst (1)
- ☐ Solvent (1)

Reference Role

- ☐ Biological Study (25)
- ☐ Pharmacological Activity (25)
- ☐ Properties (25)

Substances (25) Sort: Relevance View: Partial

References Reactions Suppliers

1	2	3
1156-50-9 <chem>C12H8N2O6S</chem> 1,1'-Sulfonylbis[4-nitrobenzene]	219765-20-5 <chem>C14H7Cl2F3N2O6S</chem> 2-[(2,4-Dichloro-5-methylphenyl)sulfonyl]-1,3-dinitro-5-(trifluoromethyl)benzene	468726-63-8 <chem>C16H8F3N3O2S</chem> 5-[3-(Trifluoromethyl)-1H-1,2,4-triazol-5-yl]-2-phenyl-2-furancarboth...
120 References 50 Reactions 53 Suppliers	9 References 0 Reactions 3 Suppliers	6 References 0 Reactions 2 Suppliers

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.

CAS SciFinder[®]

Reactions Enter a query...

Draw

Search

Star

Clock

User

Retrosynthesis

Powered by ChemPlanner[®]

Overview Steps **Predicted Results** ON

Plan Information

Estimated Yield: **50%**

Overall Price: **\$79.60**
(USD per 100 grams)

Commercially Available: C, D

Plan Options

Synthetic Depth: 3

Predicted Rules: **Common**

Break & Protect Bonds: **No**

[Edit Plan Options](#)

Scoring Profiles

Complexity Reduction

Avg. Yield 72%

Avg. Yield 70%

(31)

(105)

Retrosynthesis Step Key

Reset

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



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