

Building Blocks / Catalysts and Ligands / Material Science / ADC & Protac Linkers

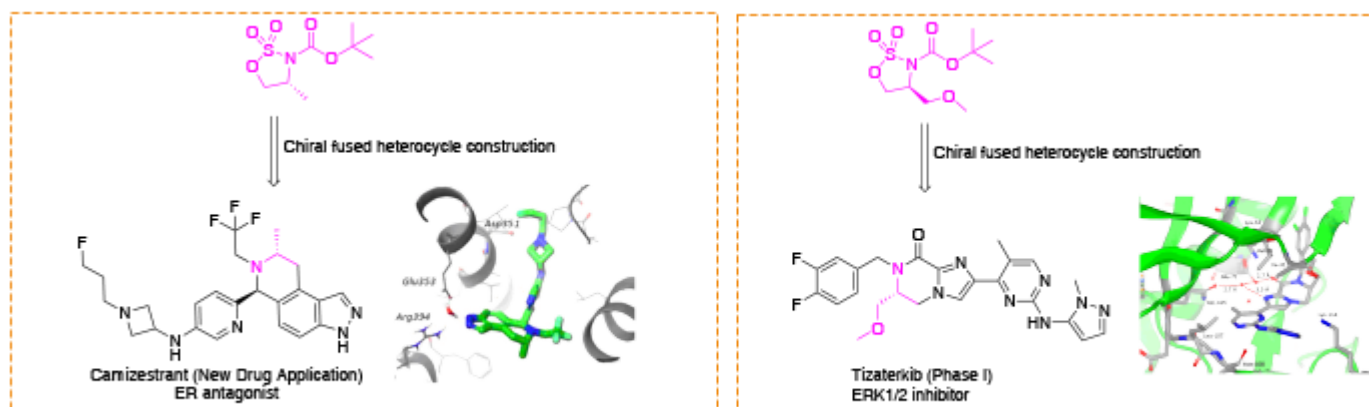
ChemScene can deliver a variety of products, including Building Blocks, Catalysts & Ligands, Material Science, ADC & Protac Linkers, etc. We have **2,100+** chemists and analysts. Our R&D team have already worked closely with pharmaceutical/biotech companies, universities, and research institutions. We currently own **20,000+** ChemScene exclusive building blocks which are structurally novel.

- **95,000+** In global stock, **880,000+** Catalog
- Meet the customized synthesis of compounds from mg to kg

If you have any questions or chemical needs, please feel free to reply to this email.

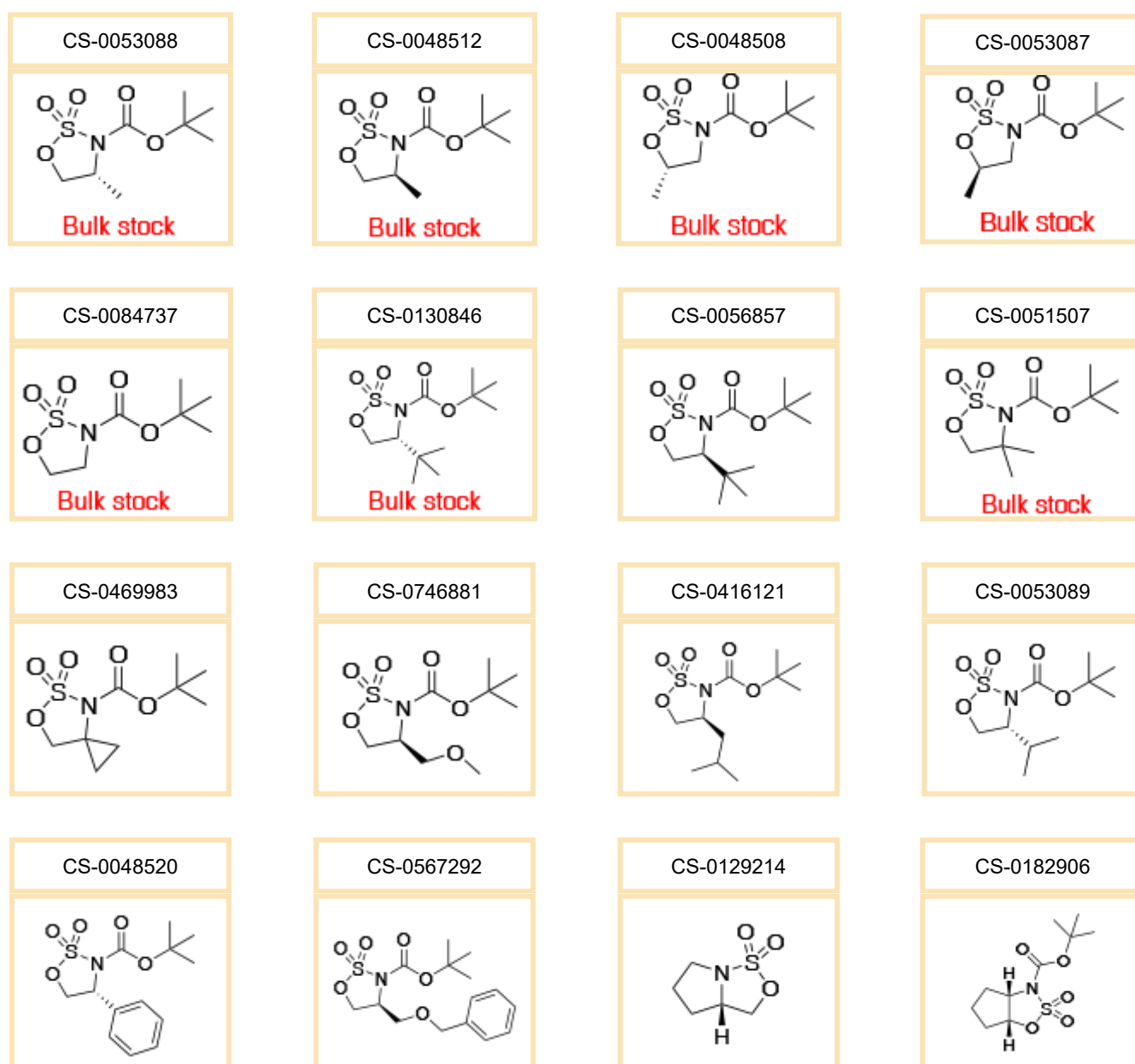
Introduction

1,2,3-Oxathiazolidine 2,2-dioxide is a five-membered cyclic sulfamidate featuring an O-S-N heterocyclic backbone with a strongly electron-withdrawing SO₂ group. Its Boc-protected derivative serves as a powerful Boc-aminoethylation reagent in medicinal chemistry. The strained ring acts as an internally activated electrophile: upon nucleophilic attack, the ring opens with loss of SO₂, affording a Boc-protected aminoethyl group under mild conditions. This strategy avoids the over-alkylation and harsh reaction conditions commonly associated with conventional ethylating reagents. Moreover, this reagent enables efficient N-alkylation of challenging heterocycles, construction of piperazine/morpholine fused rings, and stereoselective introduction of chiral aminoethyl moieties using its chiral derivatives. These advantages make 1,2,3-oxathiazolidine 2,2-dioxide a valuable alkylating reagent in modern drug discovery. So far, Chemscene has developed many 1,2,3-oxathiazolidine 2,2-dioxide building blocks, with some products available in hundred-kilogram quantities. For more information, please visit www.chemscene.com or contact us at sales@chemscene.com.



The applications of 1,2,3-oxathiazolidine 2,2-dioxide in medicinal chemistry

1,2,3-Oxathiazolidine 2,2-dioxide building blocks



Brochures of ChemScene



📄 Building Blocks



📄 Chiral Phosphine Ligands



📄 Organic Photoelectric Materials



📄 ADC

Latest Publications Citing Use of ChemScene Products



Small 2407549, (2025).

Nat Protoc 20, 480-517 (2025).

Nat Commun 15, 10507 (2024).

Nat Commun 15, 7029 (2024).

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