

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

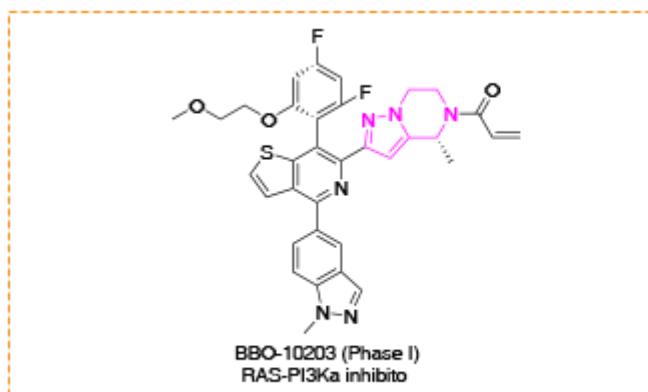
**ChemScene** can deliver a variety of products, including Building Blocks, Catalysts & Ligands, Material Science, ADC & Protac Linkers, etc. We have **2,100+** chemists and analysts. Our R&D team have already worked closely with pharmaceutical/biotech companies, universities, and research institutions.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

- **80,000+** In global stock, **650,000+** Catalog
- Meet the customized synthesis of compounds from mg to kg

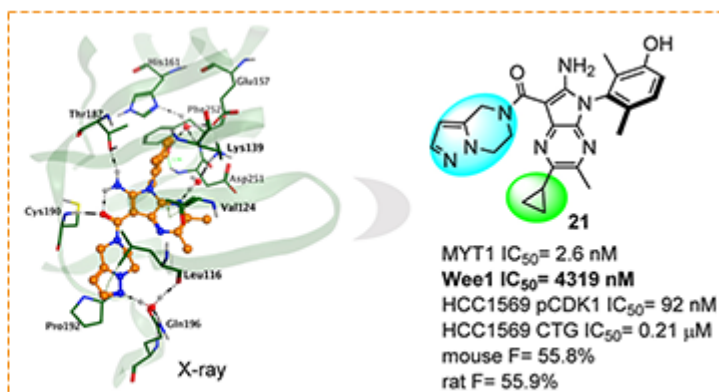
If you have any questions or chemical needs, please feel free to reply to this email.

## I Introduction

Tetrahydropyrazolopyrazine is a fused bicyclic heterocyclic scaffold, integrating a pyrazole ring with a piperazine ring. This fusion creates a semi-rigid framework that not only optimizes the molecule's ability to interact with biological targets but also enhances its selectivity by adopting a unique three-dimensional conformation that reduces off-target binding. The pyrazole moiety introduces electron-donating properties, facilitating interactions with electron-deficient regions of the target. Meanwhile, the piperazine ring enhances key pharmacokinetic properties, including solubility, membrane permeability, and receptor binding affinity. The structural versatility of tetrahydropyrazolopyrazine has been explored for applications in multiple therapeutic areas, including anti-cancer, anti-inflammatory, and antimicrobial treatments. So far, Chemscene has developed many tetrahydropyrazolopyrazine building blocks. For more information, please visit [www.chemscene.com](http://www.chemscene.com) or contact us at [sales@chemscene.com](mailto:sales@chemscene.com).



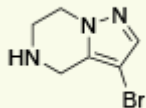
The application of tetrahydropyrazolopyrazine in medicinal chemistry



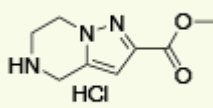
Wang, Y. et al., *J. Med. Chem.* 2024, 67, 420-432

## I Tetrahydropyrazolopyrazine building blocks

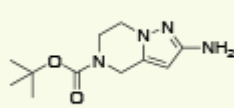
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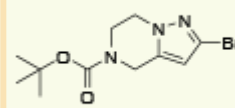
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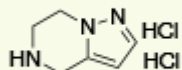
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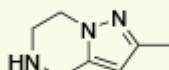
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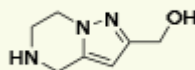
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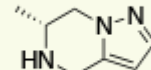
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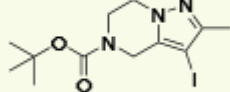
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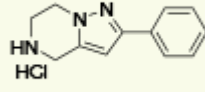
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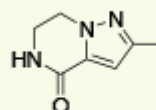
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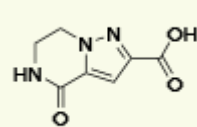
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📄 Building Blocks



📄 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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