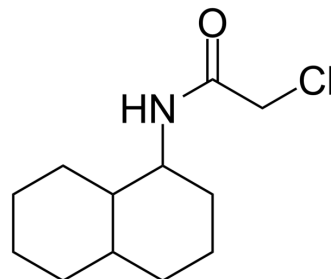


## MurA-IN-2

Cat. No.:	HY-151373
CAS No.:	2164447-18-9
Molecular Formula:	C <sub>12</sub> H <sub>20</sub> ClNO
Molecular Weight:	229.75
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

Description	MurA-IN-2 (compound 37), a chloroacetamide fragment containing a primary aliphatic amine, is a potent MurA inhibitor with an IC <sub>50</sub> value of 39 μM. MurA-IN-2 has antibacterial activity and inhibits the bacterial cell wall synthesis <sup>[1]</sup> .
IC <sub>50</sub> & Target	IC <sub>50</sub> : 39 μM (MurA) <sup>[1]</sup>
In Vitro	MurA-IN-2 (compound 37; 128 μg/mL) inhibits bacteria <i>S. aureus</i> ATCC29213 and <i>E. coli</i> ATCC25922 activity <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. Grabrijan K, et, al. Covalent inhibitors of bacterial peptidoglycan biosynthesis enzyme MurA with chloroacetamide warhead. *Eur J Med Chem.* 2022 Sep 13; 114752.
- [2]. Grabrijan K, et, al. Covalent inhibitors of bacterial peptidoglycan biosynthesis enzyme MurA with chloroacetamide warhead. *Eur J Med Chem.* 2022 Sep 13; 114752.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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