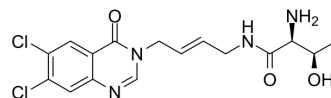


ThrRS-IN-1

Cat. No.:	HY-130718
CAS No.:	2408626-64-0
Molecular Formula:	C ₁₆ H ₁₈ Cl ₂ N ₄ O ₃
Molecular Weight:	385.25
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	ThrRS-IN-1 (Compound 30d) is a threonyl-tRNA synthetase (ThrRS) inhibitor with an IC ₅₀ of 1.4 μM and a K _d of 1.36 μM against <i>Salmonella enterica</i> ThrRS (SeThrRS). ThrRS-IN-1 simultaneously targets the tRNA ^{Thr} and L-threonine binding pockets of ThrRS. ThrRS-IN-1 shows potent antibacterial activities ^[1] .
IC ₅₀ & Target	IC ₅₀ : 1.4 μM (SeThrRS) ^[1]

REFERENCES

[1]. Junsong Guo, et al. Discovery of novel tRNA-amino acid dual-site inhibitors against threonyl-tRNA synthetase by fragment-based target hopping. *Eur J Med Chem.* 2020 Feb 1;187:111941.

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

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