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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Eravacycline dihydrochloride

Chemical Properties

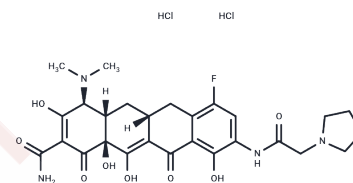
CAS No. : 1334714-66-7

Formula: C₂₇H₃₃Cl₂FN₄O₈

Molecular Weight: 631.48

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Eravacycline dihydrochloride (TP-434-046) is a potent and broad-spectrum antibacterial agent against six E. coli (MICs: 0.125-0.25 mg/L).
Targets(IC50)	Antibacterial
In vitro	Eravacycline shows inhibitory activity against A. baumannii, including isolates that are resistant to sulbactam, SM 7338, and BAY 41-6551(MIC _{50/90} = 0.5/1 mg/L)[1]. Eravacycline shows potent broad-spectrum activity against 90% of the isolates for all species panels (MIC ₉₀ 0.008-2 µg/mL) except those of Pseudomonas aeruginosa and Burkholderia cenocepacia (MIC ₉₀ = 32 µg/mL). Eravacycline is active against multidrug-resistant bacteria including β-lactamases and antibiotics, including carbapenem resistance[4].
In vivo	Eravacycline(3.125-50 mg/kg) shows mean fAUC/MIC magnitude associated with net stasis and 1-log kill endpoint of 27.97 and 32.60[2]. In mouse septicemia models, Eravacycline is efficacious against Staphylococcus aureus and demonstrates 50% protective dose values of ≤1 mg/kg. The PD ₅₀ s are 1.2-4.4 mg/kg against Escherichia coli isolates[5].

Solubility Information

Solubility	DMSO: 135.0 mg/mL (213.8 mM),Sonication is recommended. H ₂ O: 45.0 mg/mL (71.3 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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A DRUG SCREENING EXPERT

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5836 mL	7.9179 mL	15.8358 mL
5 mM	0.3167 mL	1.5836 mL	3.1672 mL
10 mM	0.1584 mL	0.7918 mL	1.5836 mL
50 mM	0.0317 mL	0.1584 mL	0.3167 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Seifert H, et al. In-vitro activity of the novel fluorocycline eravacycline against carbapenem non-susceptible *Acinetobacter baumannii*. *Int J Antimicrob Agents*. 2017 Jul 10.

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