BLI-489 hydrate

Cat. No.: HY-108062A

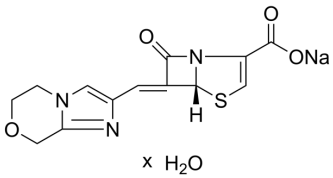
CAS No.: 2580120-08-5

Molecular Formula: $C_{13}H_{12}N_3NaO_5S.xH_2O$

Target: Bacterial; Beta-lactamase

Pathway: Anti-infection

Storage: 4°C, sealed storage, away from moisture
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	H_2O : 20 mg/mL (Need ultrasonic and warming)

BIOLOGICAL ACTIVITY

Description	BLI-489 hydrate, a penem β-lactamase inhibitor, is active against class A and class C as well as some class D β-lactamases. The combination of Piperacillin and BLI-489 hydrate is efficacious against murine infections caused by class A (including extended-spectrum β-lactamases), class C (AmpC), and class D β-lactamase-expressing pathogens[1][2].
In Vivo	On the basis of preliminary results with various ratios, a dosing ratio of 8:1 was found to be optimal for retention of enhanced efficacy. Piperacillin-BLI-489 dosed at an 8:1 ratio was efficacious against murine infections caused by class A (including extended-spectrum beta-lactamases), class C (AmpC), and class D beta-lactamase-expressing pathogens[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Petersen PJ, et al. Establishment of in vitro susceptibility testing methodologies and comparative activities of piperacillin in combination with the penem {beta}-lactamase inhibitor BLI-489. Antimicrob Agents Chemother. 2009;53(2):370-384.

[2]. Petersen PJ, et al. Efficacy of piperacillin combined with the Penem beta-lactamase inhibitor BLI-489 in murine models of systemic infection. Antimicrob Agents Chemother. 2009;53(4):1698-1700.

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