

Product Data Sheet

Product Name: Nacubactam

Cat. No.: GC36686

Chemical Properties

Cas. No. 1452458-86-4

SMILES O=S(ON1[C@]2([H])CC[C@@H](C(NOCCN)=O)[N@@](C2)C1=O)(O)=O

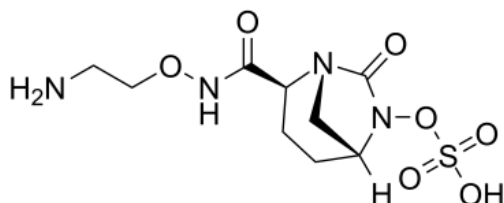
Formula $C_9H_{16}N_4O_7S$ M.Wt 324.31

Solubility Soluble in DMSO Storage Store at -20°C, protect from light, stored under nitrogen

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



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

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Background

Nacubactam (OP0595 free acid) is a potent non- β -lactam- β -lactamase inhibitor with activity against class A and class C β -lactamases. Nacubactam (OP0595 free acid) acts as a penicillin binding protein (PBP) 2-active antibacterial, and gives β -lactamase-independent potentiation of β -lactams targeting other PBPs[1][2]. non- β -lactam- β -lactamase[1]

[1]. Monogue ML, et al. In Vivo Efficacy of Meropenem with a Novel Non- β -Lactam- β -Lactamase Inhibitor, Nacubactam, against Gram-Negative Organisms Exhibiting Various Resistance Mechanisms in a Murine Complicated Urinary Tract Infection Model. Antimicrob Agents Chemother. 2018 Aug 27;62(9). [2]. Livermore DM, et al. Activity of OP0595/ β -lactam combinations against Gram-negative bacteria with extended-spectrum, AmpC and carbapenem-hydrolysing β -lactamases. J Antimicrob Chemother. 2015 Nov;70(11):3032-41.

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