

Product Data Sheet

Product Name: FPI-1523 sodium

Cat. No.: GC70836

Chemical Properties

Cas. No. 1452459-52-7

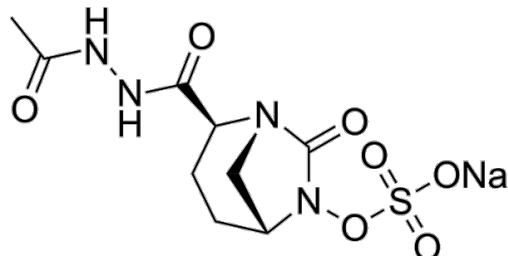
Formula $C_9H_{13}N_4NaO_7S$ M.Wt 344.28

Solubility H_2O : 125 mg/mL (363.08 mM; Need ultrasonic) Storage 4°C, sealed storage, away from moisture

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



Background

FPI-1523 sodium, a derivative of Avibactam, is a potent β -lactamase inhibitor, with Kds of 4 nM and 34 nM for CTX-M-15 and OXA-48, respectively. FPI-1523 sodium also inhibits PBP2, with an IC50 of

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

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3.2 μ M. FPI-1523 sodium exhibits considerable antimicrobial activity.

FPI-1523 sodium inhibits K12 *E. coli* K12 and PBP2, with MIC and IC₅₀ of 4 μ g/mL and 0.4 μ g/mL, respectively^[1].

FPI-1523 sodium inhibit *E. coli* BW25113 pGDP-2 transformants either with an empty vector or expressing different β -lactamases, with low MICs (1-2 μ M)^[1].

References:

[1]. King AM, et, al. Structural and Kinetic Characterization of Diazabicyclooctanes as Dual Inhibitors of Both Serine- β -Lactamases and Penicillin-Binding Proteins. ACS Chem Biol. 2016 Apr 15;11(4):864-8.

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