
Product Data Sheet

Product Name: PNU288034

Cat. No.: GC32259

Chemical Properties

Cas. No. 383199-88-0

SMILES CC(NC[C@H]1CN(C2=CC(F)=C(N3CCS(CC3)(=O)=O)C(F)=C2)C(O1)=O)=OFormula C₁₆H₁₉F₂N₃O₅S M.Wt 403.4

Solubility Soluble in DMSO Storage Store at -20°C

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**

PNU288034 is a potent oxazolidinone antibiotic.

In vitro studies conducted to characterize the transporters involved demonstrates PNU-288034 uptake by human organic anion transporter 3 (OAT3; $K_m = 44 \pm 5 \mu\text{M}$) and human multidrug and toxin extrusion protein 1 (hMATE1; $K_m = 340 \pm 55 \mu\text{M}$)[1].

PNU-288034 is metabolically stable in liver microsomes across species, and unchanged drug is cleared in the urine by an apparent active renal secretion process in rat and monkey. Coadministration of PNU-288034 and the OAT3 inhibitor probenecid significantly increases PNU-288034 plasma area under the curve (170%) and reduces both plasma and renal clearance in monkey. Coadministration of PNU-288034 and cimetidine also reduces plasma clearance in rat to a rate comparable with probenecid coadministration[1].

[1]. Lai Y, et al. Preclinical and clinical evidence for the collaborative transport and renal secretion of an oxazolidinone antibiotic by organic anion transporter 3 (OAT3/SLC22A8) and multidrug and toxin extrusion protein 1 (MATE1/SLC47A1). J Pharmacol Exp Ther.

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

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