
Product Data Sheet

Product Name: TPN171
Cat. No.: GC37817

Chemical Properties

Cas. No. 1229018-87-4

SMILES CCCOC1=C(C2=NC(CC)=C(CC)C(N2)=O)C=C(NC(CN3CCN(C)CC3)=O)C=C1

Formula $C_{24}H_{35}N_5O_3$ M.Wt 441.57

Solubility DMSO : 25 mg/mL (56.62 mM; ultrasonic and warming and heat to 60°C) 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

TPN171 is a potent, selective and oral bioavailable inhibitor of phosphodiesterase type 5 (PDE5) with an IC₅₀ of 0.62 nM, being developed for the treatment of pulmonary arterial hypertension (PAH)[1]. PDE5|0.62 nM (IC₅₀)

[1]. Wang Z, et al. Pharmacokinetics-Driven Optimization of 4(3 H)-Pyrimidinones as Phosphodiesterase Type 5 Inhibitors Leading to TPN171, a Clinical Candidate for the Treatment of Pulmonary Arterial Hypertension. J Med Chem. 2019 May 23;62(10):4979-4990.

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

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