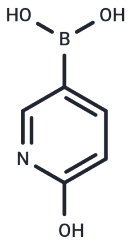
Data Sheet (Cat.No.T35533)

TargetMol

6-Hydroxypyridin-3-ylboronic Acid

Chemical Properties



CAS No. : 903899-13-8

Formula: C5H6BNO3

Molecular Weight: 138.92

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	6-Hydroxypyridin-3-ylboronic acid is a heterocyclic building block.1,2It has been used in the synthesis of non-nucleoside inhibitors of hepatitis C virus (HCV) RNA-dependent RNA polymerase nonstructural protein 5B (NS5B).16-Hydroxypyridin-3-ylboronic acid has also been used in the synthesis of mammalian target of rapamycin (mTOR) inhibitors.2
Targets(IC50)	Others

Solubility Information

Solubility	DMSO:PBS (pH 7.2) (1:5): 0.16 mg/mL (1.15 mM),Sonication is recommended. DMSO: 30 mg/mL (215.95 mM),Sonication is recommended. Ethanol: 1 mg/mL (7.2 mM),Sonication is recommended. DMF: 30 mg/mL (215.95 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.1984 mL	35.9919 mL	71.9839 mL
5 mM	1.4397 mL	7.1984 mL	14.3968 mL
10 mM	0.7198 mL	3.5992 mL	7.1984 mL
50 mM	0.144 mL	0.7198 mL	1.4397 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Hendricks, R.T., Spencer, S.R., Blake, J.F., et al.3-Hydroxyisoquinolines as inhibitors of HCV NS5b RNA-dependent RNA polymeraseBioorg. Med. Chem. Lett.19(2)410-414(2009)

Verheijen, J.C., Richard, D.J., Curran, K., et al.Discovery of 4-morpholino-6-aryl-1H-pyrazolo[3,4-d]pyrimidines as highly potent and sselective ATP-competitive inhibitors of the mammalian target of rapamycin (mTOR): Optimization of the 6-aryl substituentJ. Med. Chem.52(24)8010-8024(2009)

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