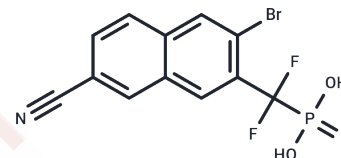


PTP1B-IN-3

Chemical Properties

CAS No. :	809272-64-8
Formula:	C ₁₂ H ₇ BrF ₂ NO ₃ P
Molecular Weight:	362.06
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	PTP1B-IN-3 is a selective and potent PTP1B inhibitor with anticancer activity that inhibits PTP1B and TCPTP. PTP1B-IN-3 is used in the study of diabetes.
Targets(IC50)	Phosphatase
In vivo	In NDL2 Ptpn1 transgenic mice, oral administration of PTP1B-IN-3 (compound 3g) at a dose of 30 mg/kg for 21 days significantly delayed the onset of tumor development in NDL2 Ptpn1+/+ mice, extending the median tumor-free days (T50) from 28 days to 75 days [2]. In diet-induced obese (DIO) mice, PTP1B-IN-3 (compound 3g) exhibits good oral bioavailability (F of 24%), slow clearance (CL of 0.71 mL/kg/min), and excellent elimination half-life (t1/2 of 6 hours)[2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.762 mL	13.8099 mL	27.6197 mL
5 mM	0.5524 mL	2.762 mL	5.5239 mL
10 mM	0.2762 mL	1.381 mL	2.762 mL
50 mM	0.0552 mL	0.2762 mL	0.5524 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

Patel D, et al. Discovery of orally active, potent, and selective benzotriazole-based PTP1B inhibitors.

ChemMedChem. 2011 Jun 6; 6(6):1011-6.

Yongxin Han, et al. Discovery of [(3-bromo-7-cyano-2-naphthyl)(difluoro)methyl]phosphonic acid, a potent and orally active small molecule PTP1B inhibitor. Bioorg Med Chem Lett. 2008 Jun 1;18(11):3200-5.

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