

HPGDS inhibitor 1

Chemical Properties

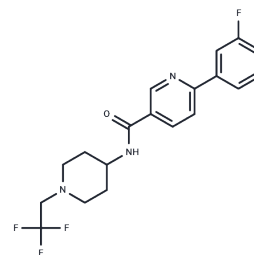
CAS No. : 1033836-12-2

Formula: C₁₉H₁₉F₄N₃O

Molecular Weight: 381.37

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	HPGDS inhibitor 1 is a novel and selective inhibitor for Hematopoietic Prostaglandin D Synthase (HPGDS) with an IC ₅₀ Value of 0.7 nM.
Targets(IC ₅₀)	PGE Synthase
Kinase Assay	Kinetic characterization of Abl inhibition: The ATP/NADH-coupled assay system in a 96-well format is used to determine the initial velocity of Abl tyrosine kinase catalyzed peptide phosphorylation. The reaction mixture contained 20 mM Tris-HCl, (pH 8.0), 50 mM NaCl, 10 mM MgCl ₂ , 2 mM PEP [2-(Phosphonoxy)- 2-propenoic acid] and 20 µg Abl peptide substrate (EAIYAAPFAKKK), fixed or varied (to determine inhibitor kinetic parameters) concentration of inhibitor applied, 1/50 of the final reaction mixture volume of PK/LDH enzyme (pyruvate kinase/lactic dehydrogenase enzymes from rabbit muscle), 160 µM NADH, 0.16 µM Abl, and ATP added last to start the reaction. Absorbance data are collected every 20s at 340 nm using a SpectraMax M5 Microplate Reader.

Solubility Information

Solubility	DMSO: 55 mg/mL (144.22 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6221 mL	13.1106 mL	26.2213 mL
5 mM	0.5244 mL	2.6221 mL	5.2443 mL
10 mM	0.2622 mL	1.3111 mL	2.6221 mL
50 mM	0.0524 mL	0.2622 mL	0.5244 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.

Reference

Chris P. Carron, et al. ACS Med. Chem. Lett., 2010, 1 (2), pp 59-63

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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