

CID-797718

Chemical Properties

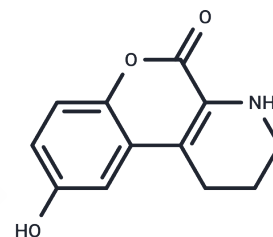
CAS No. : 370586-05-3

Formula: C₁₂H₁₁NO₃

Molecular Weight: 217.22

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	CID-797718 is a protein kinase D1 (PKD1) inhibitor.
Targets(IC50)	Others,Serine/threonin kinase
Kinase Assay	HDAC selectivity assays: Dose-response studies are done with ten concentrations in a threefold dilution series from a maximum final compound concentration of 100 μ M in the reaction mixture and are conducted at Reaction Biology Corp. All assays are based on the same principle as the HDAC9 assay described above: the deacetylation of acetylated or trifluoroacetylated lysine residues on fluorogenic peptide substrates by HDAC. HDAC1, HDAC2, HDAC3, HDAC6, HDAC10 and HDAC11 used a substrate based on residues 379-382 of p53 (Arg-His-Lys-Lys(Ac)). For HDAC8, the diacetylated peptide substrate, based on residues 379-382 of p53 (Arg-His-Lys(Ac)-Lys(Ac)), is used. HDAC4, HDAC5, HDAC7 and HDAC9 assays used the class IIa HDAC-specific fluorogenic substrate (Boc-Lys(trifluoroacetyl)-AMC). All reactions are done with 50 μ M HDAC substrate in assay buffer (50 mM Tris-HCl, pH 8.0, 137 mM NaCl, 2.7 mM KCl, 1 mM MgCl ₂ , 1 mg/mL BSA) containing 1% DMSO final concentration; incubated for 2 h at 30 °C; and developed with trichostatin A and trypsin.

Solubility Information

Solubility	DMSO: 50 mg/mL (230.18 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	4.6036 mL	23.0181 mL	46.0363 mL
5 mM	0.9207 mL	4.6036 mL	9.2073 mL
10 mM	0.4604 mL	2.3018 mL	4.6036 mL
50 mM	0.0921 mL	0.4604 mL	0.9207 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

LaValle, C., Bravo-Altamirano, K., Giridhar, K., Chen, J., Sharlow, E., & Lazo, J. et al. (2010). Novel protein kinase D inhibitors cause potent arrest in prostate cancer cell growth and motility. *BMC Chemical Biology*, 10(1), 5. doi: 10.1186/1472-6769-10-5

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