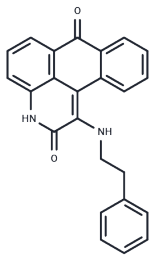
Data Sheet (Cat.No.T14779)

BRD7389

Chemical Properties



CAS No. : 376382-11-5

Formula: C24H18N2O2

Molecular Weight: 366.41

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	BRD7389 is an inhibitor of RSK family kinase with IC50s of 1.5 μM, 2.4 μM, and 1.2 μM for RSK1, RSK2, and RSK3, respectively.
Targets(IC50)	FLT,CDK,DAPK,Pim,S6 Kinase,SGK
In vitro	BRD7389 (1 μM) almost completely blocked Carbachol (1 mM)-stimulated cell proliferation, but has little effect on the basal level of proliferation[1]. BRD7389 (0.425, 0.85, 1.7, 3.4, 6.8 μM) induces insulin expression in mouse α-cells and induces a dose-dependent up-regulation of insulin (Ins2) mRNA, peaking at 0.85 μM. BRD7389 increases β-cell-specific gene expression in primary human islet cells. BRD7389 (0.85-6.8μM) significantly up-regulates Pdx1 mRNA expression in mouse α-cell line[2].

Solubility Information

Solubility	DMSO: 20 mg/mL (54.58 mM),Sonication and heating to 60℃ are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7292 mL	13.6459 mL	27.2918 mL
5 mM	0.5458 mL	2.7292 mL	5.4584 mL
10 mM	0.2729 mL	1.3646 mL	2.7292 mL
50 mM	0.0546 mL	0.2729 mL	0.5458 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

Park YS, et al. EGFR and PKC are involved in the activation of ERK1/2 and p90 RSK and the subsequent proliferation of SNU-407 colon cancer cells by muscarinic acetylcholine receptors. Mol Cell Biochem. 2012 Nov;370(1-2):191-8.
Bian Y, Shan G, Bi G, et al.Targeting ALDH1A1 to enhance the efficacy of KRAS-targeted therapy through ferroptosis.Redox Biology.2024: 103361.
Fomina-Yadlin D, et al. Small-molecule inducers of insulin expression in pancreatic alpha-cells. Proc Natl Acad Sci U S A. 2010 Aug 24;107(34):15099-104.

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