Data Sheet (Cat.No.T14960)



Chroman 1

Chemical Properties

CAS No.: 1273579-40-0

Formula: C24H28N4O4

Molecular Weight: 436.5

Appearance: no data available

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

Biological Description

Description	Chroman 1 is a potent inhibitor of ROCK1 (IC50 = 52 pM) and ROCK2 (IC50 = 1 pM).
Targets(IC50)	ROCK
In vitro	Chroman 1 also shows inhibitory activities against MRCK (IC50: 150 nM). However, it has no effect on PKA (IC50, > 20000 nM) or AKT1 (IC50, > 20000 nM).

Solubility Information

Solubility DMSO: 50 mg/mL (114.55 mM),

(< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.291 mL	11.4548 mL	22.9095 mL
5 mM	0.4582 mL	2.291 mL	4.5819 mL
10 mM	0.2291 mL	1.1455 mL	2.291 mL
50 mM	0.0458 mL	0.2291 mL	0.4582 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

Yen Ting Chen, et al. Asymmetric synthesis of potent chroman-based Rho kinase (ROCK-II) inhibitors. Med.Chem. Commun., 2011, 2, 73-75.

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