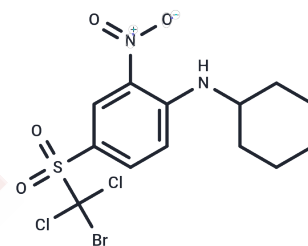


WNK1-IN-1

Chemical Properties

CAS No. :	324022-39-1
Formula:	C13H15BrCl2N2O4S
Molecular Weight:	446.14
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	WNK1-IN-1 is a selective WNK1 (With No lysine (K) 1) inhibitor (IC50 = 1.6 μM) that inhibits the phosphorylation of the endogenous substrate OSR1, and can be used to study hypertension and cancer.
Targets(IC50)	Serine Protease,Serine/threonin kinase
In vitro	WNK1-IN-1 (0.2-12.5 μM, 24 hours) treats endogenous OSR1 phosphorylated MDAMB231 breast cancer cells with an IC50 value of 4.3 μM. [1]

Solubility Information

Solubility	DMSO: 80 mg/mL (179.32 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (7.4 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2414 mL	11.2072 mL	22.4145 mL
5 mM	0.4483 mL	2.2414 mL	4.4829 mL
10 mM	0.2241 mL	1.1207 mL	2.2414 mL
50 mM	0.0448 mL	0.2241 mL	0.4483 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

Rodriguez M, et al. Synthesis and Structural Characterization of Novel Trihalo-sulfone Inhibitors of WNK1. ACS Med Chem Lett. 2022 Sep 23;13(10):1678-1684.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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