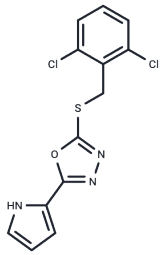
Data Sheet (Cat.No.T11076)

TargetMol

Dooku1

Chemical Properties



CAS No. : 2253744-54-4

Formula: C13H9Cl2N3OS

Molecular Weight: 326.2

Storage: Store at low temperature
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	Dooku1 is an analog of Yoda1 and a selective antagonist of endogenous Piezo1 channels. Dooku1 inhibits Ca2+ entry induced by 2μMYoda1 with IC50 values of 1.3μM (in HEK 293 cells) and 1.5μM (in HUVEC). Dooku1 inhibits Yoda1-induced aortic relaxation.
Targets(IC50)	Piezo Channel

Solubility Information

Solubility	DMSO: 120 mg/mL (367.87 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 (10.12 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0656 mL	15.328 mL	30.656 mL
5 mM	0.6131 mL	3.0656 mL	6.1312 mL
10 mM	0.3066 mL	1.5328 mL	3.0656 mL
50 mM	0.0613 mL	0.3066 mL	0.6131 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

Evans EL, et al. Yoda1 analogue (Dooku1) which antagonizes Yoda1-evoked activation of Piezo1 and aortic relaxation. Br J Pharmacol. 2018 May;175(10):1744-1759.

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