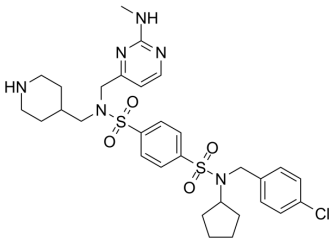
Deltasonamide 1

Cat. No.:	HY-122641
CAS No.:	2088485-33-8
Molecular Formula:	$C_{30}H_{39}ClN_6O_4S_2$
Molecular Weight:	647.25
Target:	Phosphodiesterase (PDE)
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 66.67 mg/mL (103.01 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	1.5450 mL	7.7250 mL	15.4500 mL
5 mM	0.3090 mL	1.5450 mL	3.0900 mL
10 mM	0.1545 mL	0.7725 mL	1.5450 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (3.86 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (3.86 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Deltasonamide 1 is a PDE6δ-KRas inhibitor. Deltasonamide 1 can inhibit PDE6δ-KRas with a K_D of 203 pM. Deltasonamide 1 can be used for the research of tumors[1].

IC_{50} & Target

KD: 203 pM (PDE6δ-KRas)[1]

In Vitro

Deltasonamide 1 can inhibit PDE6δ-KRas with a K_D of 203 pM[1].
Deltasonamide 1 binds to PDE6δ with up to 7 hydrogen bonds, resulting in picomolar affinity[1].
Deltasonamide 1 strongly reduces proliferation[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Proliferation Assay[1]

Cell Line:	RTCA of hPDAC cell lines.
Concentration:	0.375, 0.75, 1.5, 3, 6, 12 μM.
Incubation Time:	60 h.
Result:	Inhibited proliferation of human pancreatic cancer cell lines.

REFERENCES

[1]. Pablo Martín-Gago, et al. A PDE6δ-KRas Inhibitor Chemotype With Up to Seven H-Bonds and Picomolar Affinity That Prevents Efficient Inhibitor Release by Arl2. Angew Chem Int Ed Engl. 2017 Feb 20;56(9):2423-2428.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA