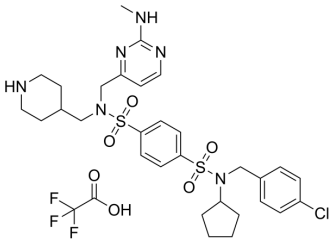
Deltasonamide 1 TFA

Cat. No.:	HY-122641D
CAS No.:	2235358-73-1
Molecular Formula:	$C_{32}H_{40}ClF_3N_6O_6S_2$
Molecular Weight:	761.27
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

H_2O : 200 mg/mL (262.72 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.3136 mL	6.5680 mL	13.1359 mL
	5 mM	0.2627 mL	1.3136 mL	2.6272 mL
	10 mM	0.1314 mL	0.6568 mL	1.3136 mL

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

BIOLOGICAL ACTIVITY

Description

Deltasonamide 1 TFA 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.

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