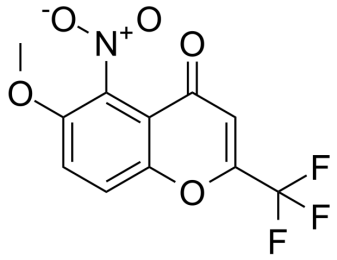
Bragsin2

Cat. No.:	HY-111550
CAS No.:	342795-08-8
Molecular Formula:	$C_{11}H_6F_3NO_5$
Molecular Weight:	289.16
Target:	Others
Pathway:	Others

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (345.83 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.4583 mL	17.2915 mL	34.5829 mL
	5 mM	0.6917 mL	3.4583 mL	6.9166 mL
	10 mM	0.3458 mL	1.7291 mL	3.4583 mL

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

BIOLOGICAL ACTIVITY

Description

Bragsin2 is a potent, selective and noncompetitive nucleotide exchange factor BRAG2 inhibitor, with an IC_{50} of 3 μM. Bragsin2 binds at the interface between the PH domain of BRAG2 and the lipid bilayer, leads BRAG2 unable to activate lipidated Arf GTPase. Bragsin2 affects breast cancer stem cells[1].

IC_{50} & Target

IC50: 3 μM (BRAG2)[1]

In Vitro

Bragsin2 (50 μM) inhibits Arf GTPase activation in HeLa cells[1].

Bragsin2 (50 μM) inhibits the growth of SUM149 and S68, with no effect on SUM159, which lacks adhesion molecules such as integrins and cadherins[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Nawrotek A, et al. PH-domain-binding inhibitors of nucleotide exchange factor BRAG2 disrupt Arf GTPase signaling. Nat Chem Biol. 2019 Feb 11. doi: 10.1038/s41589-019-0228-3.

Caution: Product has not been fully validated for medical applications. For research use only.

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