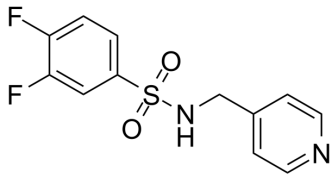
Schnurri-3 inhibitor-1

Cat. No.:	HY-148043
CAS No.:	736154-60-2
Molecular Formula:	$C_{12}H_{10}F_2N_2O_2S$
Molecular Weight:	284.28
Target:	Others
Pathway:	Others
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (879.41 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.5177 mL	17.5883 mL	35.1766 mL
	5 mM	0.7035 mL	3.5177 mL	7.0353 mL
	10 mM	0.3518 mL	1.7588 mL	3.5177 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: 2.08 mg/mL (7.32 mM); Suspended solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (7.32 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (7.32 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Schnurri-3 inhibitor-1 is a potent schnurri-3 inhibitor which is an essential regulator of adult bone formation. Schnurri-3 inhibitor-1 can inhibit Shn3 with EF1alpha promoter in osteoblast cell line Shn3FFL with an AC_{50} value of 2.09 μM. Schnurri-3 inhibitor-1 can be used to research osteoporosis[1].

IC_{50} & Target

Schnurri-3[1]

In Vitro

Schnurri-3 inhibitor-1 (0-50 μM; 24 h) can inhibit Shn3 with EF1alpha promoter in SV40 large T antigen-transformed osteoblast cell line (Clone20-Shn3FFL) with an AC_{50} value of 2.09 μM[1].

Schnurri-3 inhibitor-1 (0.195-26 μM; 48 h) exhibits moderate activity in HepG2 mammalian cells with an AC_{50} value of 54.73 μM[1].

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

Cell Viability Assay[1]

Cell Line:	Clone20-Shn3FFL cells
Concentration:	2.09 μM
Incubation Time:	24 hours
Result:	Showed the active concentration AC_{50} value of 2.09 μM.

Cell Viability Assay[1]

Cell Line:	Clone20-Shn3FFL cells
Concentration:	1.2 μM
Incubation Time:	24 hours
Result:	Showed the active concentration AC_{50} value of 1.2 μM.

REFERENCES

[1]. National Center for Biotechnology Information. PubChem Compound Summary for CID 2473445.

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