Proteins

Product Data Sheet

Sm₄

Cat. No.: HY-116940 CAS No.: 365542-77-4 Molecular Formula: C₁₉H₁₆O₃ Molecular Weight: 292.33

Others Target: Pathway: Others

Storage: Powder -20°C

3 years 2 years

-80°C In solvent 6 months

> -20°C 1 month

SOLVENT & SOLUBILITY

In Vitro

DMSO: 12.5 mg/mL (42.76 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	3.4208 mL	17.1040 mL	34.2079 mL
	5 mM	0.6842 mL	3.4208 mL	6.8416 mL
	10 mM	0.3421 mL	1.7104 mL	3.4208 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: ≥ 1.25 mg/mL (4.28 mM); Clear solution
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.25 mg/mL (4.28 mM); Clear solution
- 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.25 mg/mL (4.28 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Sm4 is a SOX18 inhibitor. Sm4 shows SOX18-DNA binding inhibitory activity. Sm4 selectively affects SOX18 transcriptional output in vitro. Sm4 blocks SoxF transcriptional activity in vivo. Sm4 can be used for cancer metastasis and vascular cancers research[1].

REFERENCES

tors of sox18 protein activit	y for treating angiogenesis- and/o	or lymphangiogenesis-related diseases. Patent,	WO2018112545A1.
Caution: Product has	s not been fully validated for r	nedical applications. For research use onl	у.
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