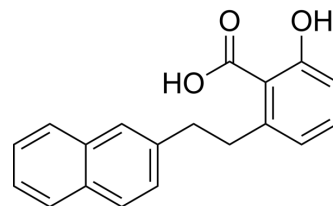


## Sm4

Cat. No.:	HY-116940		
CAS No.:	365542-77-4		
Molecular Formula:	C <sub>19</sub> H <sub>16</sub> O <sub>3</sub>		
Molecular Weight:	292.33		
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 : 12.5 mg/mL (42.76 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	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

- 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
- 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
- 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<sup>[1]</sup>.

### REFERENCES

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA