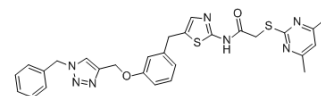


## Sirt2-IN-1

Cat. No.:	HY-112427		
CAS No.:	1862238-00-3		
Molecular Formula:	C <sub>28</sub> H <sub>27</sub> N <sub>7</sub> O <sub>2</sub> S <sub>2</sub>		
Molecular Weight:	557.69		
Target:	Sirtuin		
Pathway:	Cell Cycle/DNA Damage; Epigenetics		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 150 mg/mL (268.97 mM; Need ultrasonic)  
 H<sub>2</sub>O : < 0.1 mg/mL (insoluble)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.7931 mL	8.9656 mL	17.9311 mL
5 mM	0.3586 mL	1.7931 mL	3.5862 mL
10 mM	0.1793 mL	0.8966 mL	1.7931 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: ≥ 2.5 mg/mL (4.48 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
 Solubility: ≥ 2.5 mg/mL (4.48 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Sirt2-IN-1 (Compound 9) is a sirtuin 2 (Sirt2) inhibitor with an IC<sub>50</sub> of 163 nM<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

SIRT2  
 163 nM (IC<sub>50</sub>)

### REFERENCES

- [1]. Schiedel M, et al. Structure-Based Development of an Affinity Probe for Sirtuin 2. Angew Chem Int Ed Engl. 2016 Feb 5;55(6):2252-6.

---

**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