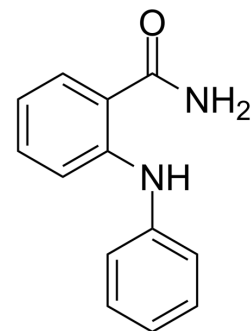


## SIRT-IN-3

Cat. No.:	HY-133998
CAS No.:	1211-19-4
Molecular Formula:	C <sub>13</sub> H <sub>12</sub> N <sub>2</sub> O
Molecular Weight:	212.25
Target:	Sirtuin
Pathway:	Cell Cycle/DNA Damage; Epigenetics
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (588.93 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	4.7114 mL	23.5571 mL	47.1143 mL
		5 mM	0.9423 mL	4.7114 mL	9.4229 mL
		10 mM	0.4711 mL	2.3557 mL	4.7114 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.08 mg/mL (9.80 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (9.80 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.08 mg/mL (9.80 mM); Clear solution</li> </ol>				

### BIOLOGICAL ACTIVITY

Description	SIRT-IN-3 is a potent SIRT inhibitor, with an IC <sub>50</sub> of 17 μM for SIRT1. SIRT-IN-3 shows about 4-fold and 14-fold selectivity for SIRT1 over SIRT2 and SIRT3, respectively (IC <sub>50</sub> of 74 μM and 235 μM for SIRT2 and SIRT3, respectively) <sup>[1]</sup> .
In Vitro	SIRT-IN-3 (Compound 7) (30-300 μM; 8 hours) causes p53 acetylation in in HCT116 cells <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### CUSTOMER VALIDATION

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- Cell Death Dis. 2021 May 18;12(6):501.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

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[1]. Suzuki T, et al. 2-Anilinobenzamides as SIRT inhibitors. ChemMedChem. 2006 Oct;1(10):1059-62.

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

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