## SIRT1-IN-3

Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway: Storage:	HY-146690 2470969-91-4 C <sub>13</sub> H <sub>15</sub> BrN <sub>2</sub> O 295.18 Sirtuin Cell Cycle/DNA Damage; Epigenetics 4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)	$Br$ $N$ $NH_2$ $NH_2$
	and light)	

## SOLVENT & SOLUBILITY

		Mass Solvent Concentration	1 mg	5 mg	10 mg	
	Preparing Stock Solutions	1 mM	3.3878 mL	16.9388 mL	33.8776 mL	
		5 mM	0.6776 mL	3.3878 mL	6.7755 mL	
		10 mM	0.3388 mL	1.6939 mL	3.3878 mL	
	Please refer to the so	Please refer to the solubility information to select the appropriate solvent.				
Vivo		lubility information to select the app one by one: 10% DMSO >> 40% PEC		0 452/!		

BIOLOGICAL ACTIV	ИТҮ		
Description	SIRT1-IN-3 (compound 3j) is a potent and selective SIRT1 inhibitor, with an IC $_{50}$ of 4.2 $\mu\text{M}^{[1]}.$		
IC₅₀ & Target	SIRT1 4.2 μΜ (IC <sub>50</sub> )	SIRT2 38 μΜ (IC <sub>50</sub> )	
In Vitro	SIRT1-IN-3 (compound 3j) (0-100 μM, 48 h) inhibits the proliferation of human cancer cell lines including K562, HCT-110 H460, HepG2, A549, and MCF-7, and shows low cytotoxic on 293T and HUVEC <sup>[1]</sup> .         MCE has not independently confirmed the accuracy of these methods. They are for reference only.         Cell Cytotoxicity Assay         Cell Line:       Human cancer cell lines (K562, HCT-116, H460, HepG2, A549, HT-29, MCF-7) and norma cell lines (293T, HUVEC) <sup>[1]</sup>		

Inhibitors • Screening Libraries •

Proteins

Concentration:	0, 0.01, 0.1, 1, 10, 100 μΜ
Incubation Time:	48 h
Result:	Inhibited the proliferation of Human cancer cell lines including K562, HCT-116, H460, HepG2, A549, and MCF-7, with IC <sub>50</sub> values of 47, 41, 66, 93, 52, and 64 μM, respectively. And showed low cytotoxic on 293T and HUVEC, with an IC <sub>50</sub> values of 49 and 45 μM, respectively.

## REFERENCES

[1]. Laaroussi H, Ding Y, Teng Y, et al. Synthesis of indole inhibitors of silent information regulator 1 (SIRT1), and their evaluation as cytotoxic agents. Eur J Med Chem. 2020;202:112561.

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

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