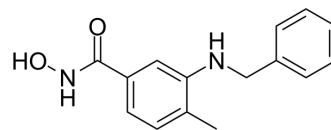


## TH34

<b>Cat. No.:</b>	HY-111818		
<b>CAS No.:</b>	2196203-96-8		
<b>Molecular Formula:</b>	C <sub>15</sub> H <sub>16</sub> N <sub>2</sub> O <sub>2</sub>		
<b>Molecular Weight:</b>	256.3		
<b>Target:</b>	HDAC		
<b>Pathway:</b>	Cell Cycle/DNA Damage; Epigenetics		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 150 mg/mL (585.25 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
<b>Preparing Stock Solutions</b>	<b>1 mM</b>	3.9017 mL	19.5084 mL	39.0168 mL
	<b>5 mM</b>	0.7803 mL	3.9017 mL	7.8034 mL
	<b>10 mM</b>	0.3902 mL	1.9508 mL	3.9017 mL
Please refer to the solubility information to select the appropriate solvent.				
<b>In Vivo</b>	<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: ≥ 2.5 mg/mL (9.75 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (9.75 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (9.75 mM); Clear solution</li> </ol>			

### BIOLOGICAL ACTIVITY

<b>Description</b>	TH34, an HDAC6/8/10 inhibitor with IC <sub>50</sub> s of 4.6 μM, 1.9 μM, and 7.7 μM respectively, shows high selectivity over HDAC1/2/3 <sup>[1]</sup> .		
<b>IC<sub>50</sub> &amp; Target</b>	HDAC6 4.6 μM (IC <sub>50</sub> )	HDAC8 1.9 μM (IC <sub>50</sub> )	HDAC10 7.7 μM (IC <sub>50</sub> )
<b>In Vitro</b>	TH34 induces caspase-dependent programmed cell death and cell cycle arrest in neuroblastoma cells <sup>[1]</sup> .		

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MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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[1]. Kolbinger FR, et al. The HDAC6/8/10 inhibitor TH34 induces DNA damage-mediated cell death in human high-grade neuroblastoma cell lines. Arch Toxicol. 2018 Aug;92(8):2649-2664.

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

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