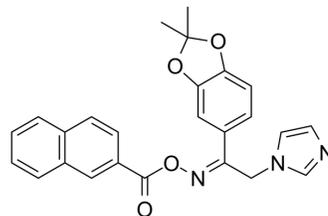


## AChE-IN-3

<b>Cat. No.:</b>	HY-145112		
<b>CAS No.:</b>	2713548-95-7		
<b>Molecular Formula:</b>	C <sub>25</sub> H <sub>21</sub> N <sub>3</sub> O <sub>4</sub>		
<b>Molecular Weight:</b>	427.45		
<b>Target:</b>	AChE		
<b>Pathway:</b>	Neuronal Signaling		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (233.95 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.3395 mL	11.6973 mL	23.3945 mL
5 mM	0.4679 mL	2.3395 mL	4.6789 mL
10 mM	0.2339 mL	1.1697 mL	2.3395 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 (5.85 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: 2.5 mg/mL (5.85 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (5.85 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

AChE-IN-3 shows moderate inhibitory activity against AChE and strong NO inhibitory activity with an EC<sub>50</sub> of 0.57 μM.

### REFERENCES

[1]. Ren B, et al. Imidazolylacetophenone oxime-based multifunctional neuroprotective agents: Discovery and structure-activity relationships. Eur J Med Chem. 2022 Jan

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

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