



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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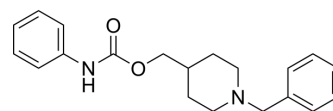
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## AChE/BChE/MAO-B-IN-1

Cat. No.:	HY-146312
CAS No.:	2416910-82-0
Molecular Formula:	C <sub>20</sub> H <sub>24</sub> N <sub>2</sub> O <sub>2</sub>
Molecular Weight:	324.42
Target:	Cholinesterase (ChE); Monoamine Oxidase
Pathway:	Neuronal Signaling
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (308.24 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	3.0824 mL	15.4121 mL	30.8242 mL
		5 mM	0.6165 mL	3.0824 mL	6.1648 mL
	10 mM	0.3082 mL	1.5412 mL	3.0824 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.71 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.71 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	AChE/BChE/MAO-B-IN-1 (Compound 10) is a reversible and non-time-dependent AChE, BChE and MAO-B inhibitor with IC <sub>50</sub> values of 7.31, 0.56 and 26.1 μM for hAChE, hBChE and hMAO-B, respectively. AChE/BChE/MAO-B-IN-1 can cross the BBB and shows neuroprotective effects without cytotoxicity <sup>[1]</sup> .		
IC <sub>50</sub> & Target	hBChE 0.56 μM (IC <sub>50</sub> )	hAChE 7.31 μM (IC <sub>50</sub> )	MAO-B 26.1 μM (IC <sub>50</sub> )
In Vitro	AChE/BChE/MAO-B-IN-1 (Compound 10) prevents amyloid β <sub>1-42</sub> (Aβ <sub>1-42</sub> )-induced neuronal cell death <sup>[1]</sup> . 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]. Košak U, et al. N-alkylpiperidine carbamates as potential anti-Alzheimer's agents. Eur J Med Chem. 2020 Jul 1;197:112282.

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

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