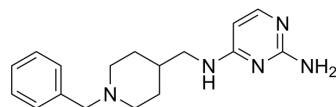


AChE/BuChE-IN-4

Cat. No.:	HY-155349	
CAS No.:	1997158-25-4	
Molecular Formula:	C ₁₇ H ₂₃ N ₅	
Molecular Weight:	297.4	
Target:	Cholinesterase (ChE)	
Pathway:	Neuronal Signaling	
Storage:	Powder	-20°C 3 years
		4°C 2 years
	In solvent	-80°C 6 months
		-20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 125 mg/mL (420.31 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
	Concentration				
	1 mM		3.3625 mL	16.8124 mL	33.6247 mL
	5 mM		0.6725 mL	3.3625 mL	6.7249 mL
	10 mM		0.3362 mL	1.6812 mL	3.3625 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

AChE/BuChE-IN-4 (compound 4a) is orally active and brain-penetrant multitarget-directed AChE/BuChE inhibitor against AChE and BuChE, with the IC₅₀ of 2.08 and 7.41 μM^[1].

IC₅₀ & Target

2.08 and 7.41 μM^[1]

REFERENCES

[1]. Conceição RAD, et al. Structure-based design of new N-benzyl-piperidine derivatives as multitarget-directed AChE/BuChE inhibitors for Alzheimer's disease [published online ahead of print, 2023 Oct 5]. J Cell Biochem. 2023;10.1002/jcb.30483.

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

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