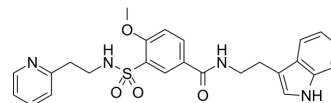


## Z32439948

Cat. No.:	HY-162340
CAS No.:	920845-86-9
Molecular Formula:	C <sub>25</sub> H <sub>26</sub> N <sub>4</sub> O <sub>4</sub> S
Molecular Weight:	478.56
Target:	Cholinesterase (ChE)
Pathway:	Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

Description	Z32439948 is a butyrylcholinesterase (BChE) inhibitor (IC <sub>50</sub> : 1.4 μM, hBChE) and is a derivative of m-sulfamoylbenzamide. Z32439948 also exhibited neuroprotective effects against glutamate in SH-SY5Y cells <sup>[1]</sup> .	
IC <sub>50</sub> & Target	BChE 1.4 μM (IC <sub>50</sub> , <sup>[1]</sup> )	
In Vitro	Z32439948 (1-5 μM; 48 h) has neuroprotective effects on glutamate (31 mM)-induced SH-SY5Y cell death <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Cell Viability Assay <sup>[1]</sup>	
	Cell Line:	SH-SY5Y, BV2 cells
	Concentration:	1 μM, 2 μM, 5 μM
	Incubation Time:	48 h; with or without 31 mM Glutamate
	Result:	Protected cell from Glutamate induced damage.

### REFERENCES

[1]. Lu X, et al. Discovery, Structure-Based Modification, In Vitro, In Vivo, and In Silico Exploration of m-Sulfamoyl Benzoamide Derivatives as Selective Butyrylcholinesterase Inhibitors for Treating Alzheimer's Disease. ACS Chem Neurosci. 2024 Mar 20;15(6):1135-1156.

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

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