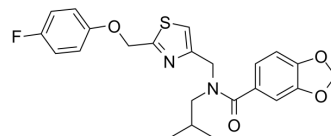


## BuChE-IN-1

Cat. No.:	HY-144446
CAS No.:	2669070-40-8
Molecular Formula:	C <sub>23</sub> H <sub>23</sub> FN <sub>2</sub> O <sub>4</sub> S
Molecular Weight:	442.5
Target:	Cholinesterase (ChE)
Pathway:	Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

Description	BuChE-IN-1 (Compound 23) is a potent inhibitor of butyrylcholinesterase (BuChE). Butyrylcholinesterase (BuChE) is recently regarded as a biomarker in progressed Alzheimer's disease (AD). BuChE-IN-1 shows low cytotoxicity and high blood brain barrier (BBB) permeability. BuChE-IN-1 is a promising BuChE inhibitor for the research of AD <sup>[1]</sup> .
IC <sub>50</sub> & Target	Butyrylcholinesterase

### REFERENCES

[1]. MeiyangXi, et al. Design, synthesis, biological evaluation and molecular modeling of N-isobutyl-N-((2-(p-tolylloxymethyl)thiazol-4-yl)methyl)benzo[d][1,3]dioxole-5-carboxamides as selective butyrylcholinesterase inhibitors.

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

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