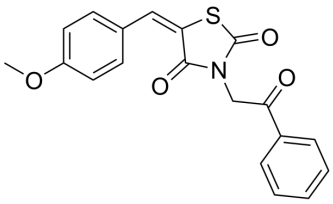
TZ4M

Cat. No.:	HY-155823
Molecular Formula:	$C_{19}H_{15}NO_4S$
Molecular Weight:	353.39
Target:	Cholinesterase (ChE)
Pathway:	Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	TZ4M is a 2,4-thiazolidinedione (TZD)-based anti-ADV agent with neuroprotective effects. TZ4M exhibits AChE inhibition in human plasma. TZ4M improves memory and cognitive impairment in adult rats in a scopolamine (HY-N0296)-induced Alzheimer-type model[1].
IC_{50} & Target	AChE[1]
In Vivo	In rat model, TZ4M (2 and 3 mg/kg; ip; once daily for 8 days) inhibits Scopolamine (3 mg/kg; ip) induced neuronal damage in the hippocampus and apoptosis of hippocampus neurons and cortexin, and expands the number of mAChR M1 in neurons of the DG region and CA1 of the hippocampus and cortex[1]. TZ4M is encountered to be BBB positive via CBligand-BBB forecast, which is needed for AChE inhibition[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Taheri M, et al. Neuroprotective Effect of Thiazolidine-2,4-dione Derivatives on Memory Deficits and Neuropathological Symptoms of Dementia on a Scopolamine-Induced Alzheimer's Model in Adult Male Wistar Rats. ACS Chem Neurosci. 2023 Sep 6;14(17):3156-3172.. .

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