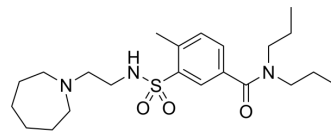


BChE-IN-29

Cat. No.:	HY-162338
Molecular Formula:	C ₂₂ H ₃₇ N ₃ O ₃ S
Molecular Weight:	423.61
Target:	Cholinesterase (ChE)
Pathway:	Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	BChE-IN-29 (Compound 27a) is a BChE inhibitor (IC ₅₀ : 0.078 μM and 0.74 μM for BChE and AChE respectively). BChE-IN-29 has anti-inflammatory activity and can be used for research of AD ^[1] .	
IC₅₀ & Target	BChE 0.075 μM (IC ₅₀)	AChE 0.74 μM (IC ₅₀)
In Vitro	BChE-IN-29 (5 μM, 24 h) reduces the ROS level, indicating the anti-inflammatory activity in SH-SY5Y cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
In Vivo	BChE-IN-29 (5 mg/kg, i.p.) reduces the time for mice to reach the platform, indicating the improved cognitive ability of the Scopolamine (HY-N0296) or Aβ ₁₋₄₂ induced mice ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

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 7.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA