AChE/BChE/BACE-1-IN-1

BIOLOGICAL ACTIVITY

Description

MedChemExpress

Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway: Storage:	HY-147658 1321361-13-0 C ₁₉ H ₂₁ F ₃ N ₂ O 350.38 AChE; Beta-secretase; ROS Neuronal Signaling; Protein Tyrosine Kinase/RTK Please store the product under the recommended conditions in the Certificate of Analysis.	H F F
---	---	----------

ease store the product under the recommended conditions in the Certificate of nalysis.		Proteins	
AChE/BChE/BACE-1-IN-1 (Compound 4k) is an orally active inhibitor of AChE, BChE, and BACE-1 with IC ₅₀ values of 0.058, 0.082 and 0.115 μM against hAChE, hBChE and hBACE-1, respectively. AChE/BChE/BACE-1-IN-1 shows considerable PAS-AChE binding capability, excellent brain permeation, potential disassembly of Aβ aggregates, and neuroprotective activity against Aβ-induced stress. AChE/BChE/BACE-1-IN-1 has remarkable antioxidant potential ^[1] .	,		

IC₅₀ & Target IC₅₀: 0.058 μM (hAChE), 0.082 μM (hBChE), 0.115 μM (hBACE-1)^[1]

In Vivo AChE/BChE/BACE-1-IN-1 (Compound 4k) (0-10 mg/kg; p.o.) ameliorates cognitive dysfunction against the scopolamineinduced amnesia model in the Y-maze test^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Choubey PK, et al. Design, synthesis, and multitargeted profiling of N-benzylpyrrolidine derivatives for the treatment of Alzheimer's disease. Bioorg Med Chem. 2020 Nov 15;28(22):115721.

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