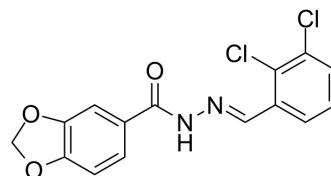


ChEs/MAOs-IN-1

Cat. No.:	HY-162061
Molecular Formula:	C ₁₅ H ₁₀ Cl ₂ N ₂ O ₃
Molecular Weight:	337.16
Target:	Monoamine Oxidase
Pathway:	Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	ChEs/MAOs-IN-1 (Compound 4i) is a dual inhibitor of cholinesterases (ChEs) and monoamine oxidases (MAOs). ChEs/MAOs-IN-1 has IC ₅₀ values of 0.048 μM, 0.89 μM, 3.58 μM, and 0.095 μM for AChE, BChE, MAO-A and MAO-B respectively. ChEs/MAOs-IN-1 can be used in the study of neurodegenerative diseases ^[1] .
IC₅₀ & Target	IC ₅₀ : 0.048 μM (AChE) ^[1] . IC ₅₀ : 0.89 μM (BChE) ^[1] . IC ₅₀ : 3.58 μM (MAO-A) ^[1] . IC ₅₀ : 0.095 μM (MAO-B) ^[1] .

REFERENCES

[1]. Kumar, V Pavan et al. Exploration of a library of piperonylic acid-derived hydrazones possessing variable aryl functionalities as potent dual cholinesterase and monoamine oxidase inhibitors. *Molecular diversity* vol. 27,6 (2023): 2465-2489.

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

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