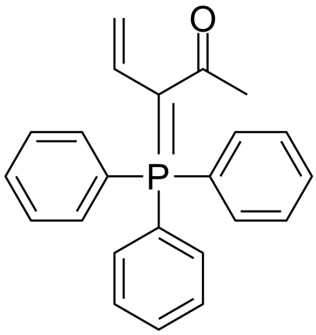
AChE-IN-51

Cat. No.:	HY-157382
Molecular Formula:	$C_{23}H_{21}OP$
Molecular Weight:	344.39
Target:	Cholinesterase (ChE); Amyloid-β; MMP
Pathway:	Neuronal Signaling; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	AChE-IN-51 (compound 8C) is an orally active, non-competitive inhibitor of AChE and BChE (IC_{50}: 84 nM, 97 nM). It also inhibits MMP-2 and amyloid $A\beta_{1-42}$ aggregates (IC_{50}: 724 nM, 302 nM). AChE-IN-51 has low cytotoxicity and in silico predicted blood-brain barrier permeability. Can be used for research on diseases such as Alzheimer's disease (AD)[1].		
IC_{50} & Target	AChE 84 nM (IC_{50})	BChE 97 nM (IC_{50})	MMP-2 724 nM (IC_{50})

REFERENCES

[1]. El-Hussieny M, et al. Dual-target ligand discovery for Alzheimer's disease: triphenylphosphoranylidene derivatives as inhibitors of acetylcholinesterase and β-amyloid aggregation. J Enzyme Inhib Med Chem. 2023 Dec;38(1):2166040.

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