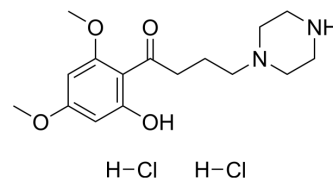


Y13g dihydrochloride

Cat. No.:	HY-115910A
Molecular Formula:	C ₁₆ H ₂₆ Cl ₂ N ₂ O ₄
Molecular Weight:	381.29
Target:	Interleukin Related; Cholinesterase (ChE)
Pathway:	Immunology/Inflammation; Neuronal Signaling
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (327.83 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.6227 mL	13.1134 mL	26.2268 mL
	5 mM	0.5245 mL	2.6227 mL	5.2454 mL
	10 mM	0.2623 mL	1.3113 mL	2.6227 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Y13g dihydrochloride is the potent inhibitor of both AChE and IL-6. Interleukin-6 (IL-6) and acetylcholinesterase (AChE) are two important targets implicated in progression of Alzheimer's Disease (AD). Y13g dihydrochloride reverses the STZ-induced memory deficit, and shows histopathology similarly as in normal animals^[1].

IC₅₀ & Target

AChE

IL-6

REFERENCES

[1]. Kaur S, et al. Design, molecular Docking, synthesis and evaluation of xanthoxylin hybrids as dual inhibitors of IL-6 and acetylcholinesterase for Alzheimer's disease. Bioorg Chem. 2022;121:105670.

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

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