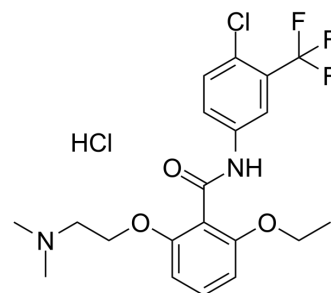


YF-2 hydrochloride

Cat. No.:	HY-16531A
CAS No.:	1312005-62-1
Molecular Formula:	C ₂₀ H ₂₃ Cl ₂ F ₃ N ₂ O ₃
Molecular Weight:	467.31
Target:	Histone Acetyltransferase
Pathway:	Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	YF-2 hydrochloride is a highly selective, blood-brain-barrier permeable histone acetyltransferase activator, acetylates H3 in the hippocampus, with EC ₅₀ s of 2.75 μM, 29.04 μM and 49.31 μM for CBP, PCAF, and GCN5, respectively, shows no effect on HDAC. Anti-cancer and anti-Alzheimer's disease ^[1] .		
IC₅₀ & Target	CBP 2.75 μM (EC50)	PCAF 29.04 μM (EC50)	GCN5 49.31 μM (EC50)
In Vitro	YF-2 (0.03, 0.1, 0.25, 0.5, 1, 2.5, 5, 15, 40 and 80 μM, 72 hours) inhibits the proliferation of U251, CCRF-CEM, Hs578T, NCI-ADR-RES cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
In Vivo	YF-2 (20 mg/kg, 2 hours before electric shock or 5 mg/kg, 30 min before the electric shock, i.p.) rescues the defect in contextual memory in mice, and shows no effect on contextual memory alone at 20 mg/kg in mice ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

CUSTOMER VALIDATION

- Sci Total Environ. 2021, 147014.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. FENG, Yen, et al. HISTONE ACETYLTRANSFERASE ACTIVATORS AND USES THEREOF. WO 2011072243A1.

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

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