

Product Data Sheet

Product Name: YF-2 hydrochloride

Cat. No.: GF00168

Chemical Properties

Cas. No. 1312005-62-1

Formula $C_{20}H_{23}Cl_2F_3N_2O_3$ M.Wt 467.31

Solubility DMSO : 100 mg/mL (213.99 mM; Need ultrasonic); H_2O : 3.12 mg/mL (6.68 mM; ultrasonic and warming and heat to 60°C) Storage 2-8°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

YF-2 hydrochloride is a highly selective, blood-brain-barrier permeable histone acetyltransferase activator, acetylates H3 in the hippocampus, with EC50s of 2.75 μ M, 29.04 μ M and 49.31 μ M for CBP, PCAF, and GCN5, respectively, shows no effect on HDAC. Anti-cancer and anti-Alzheimer's disease.

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

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YF-2 (0.03, 0.1, 0.25, 0.5, 1, 2.5, 5, 15, 40 and 80 μ M, 72 hours) inhibits the proliferation of U251, CCRF-CEM, Hs578T, NCI-ADR-RES cells^[1].

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].

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

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