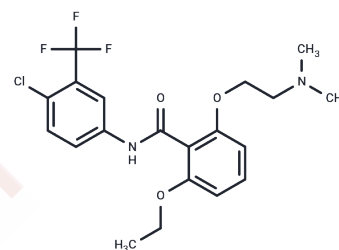


YF-2

Chemical Properties

CAS No. :	1311423-89-8
Formula:	C ₂₀ H ₂₂ ClF ₃ N ₂ O ₃
Molecular Weight:	430.85
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	YF-2 is blood-brain-barrier permeable histone acetyltransferase activator, acetylates H3 in the hippocampus, CBP, PCAF, and GCN5 with EC50s of 2.75 μM, 29.04 μM and 49.31 μM, respectively
Targets(IC50)	Epigenetic Reader Domain, Histone Acetyltransferase
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, respectively.
In vivo	YF-2, administered intraperitoneally at doses of 20 mg/kg (2 hours before an electric shock) or 5 mg/kg (30 minutes prior to the electric shock), effectively rescues the defect in contextual memory in mice. At a dosage of 20 mg/kg without the electric shock treatment, YF-2 exhibits no impact on contextual memory in mice.

Solubility Information

Solubility	H ₂ O: Insoluble, DMSO: 125 mg/mL (290.12 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (9.28 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.321 mL	11.605 mL	23.2099 mL
5 mM	0.4642 mL	2.321 mL	4.642 mL
10 mM	0.2321 mL	1.1605 mL	2.321 mL
50 mM	0.0464 mL	0.2321 mL	0.4642 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481