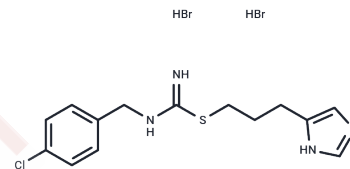


Clobenpropit dihydrobromide

Chemical Properties

CAS No. : 145231-35-2
 Formula: C₁₄H₁₉Br₂ClN₄S
 Molecular Weight: 470.7
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.



Biological Description

Description	Clobenpropit dihydrobromide is a potent antagonist and inverse agonist of histamine H ₃ R (histamine H ₃ LR, pEC ₅₀ of 8.07)
Targets(IC ₅₀)	Apoptosis, Histamine Receptor
In vitro	Clobenpropit inhibited cell migration and increased apoptosis of pancreatic cancer cells in combination with gemcitabine. Clobenpropit up-regulated E-cadherin, but down-regulated vimentin and matrix metalloproteinase 9 in real-time polymerase chain reaction[1].
In vivo	Clobenpropit inhibited tumor growth (gemcitabine 294.46 mg vs combination 154.54 mg, P = 0.02) and enhanced apoptosis in combination with gemcitabine (control 2.5%, gemcitabine 25.8%, clobenpropit 9.7% and combination 40.9%, P = 0.001) by up-regulation of E-cadherin and down-regulation of Zeb1 in Panc-1 xenograft mouse.
Cell Research	Pancreatic cancer cells (Panc-1, MiaPaCa-2 and AsPC-1). Concentration: 50 Mm

Solubility Information

Solubility	DMSO: 4.71 mg/mL (10.01 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: 1 mg/mL (2.12 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	2.1245 mL	10.6225 mL	21.245 mL
5 mM	0.4249 mL	2.1245 mL	4.249 mL
10 mM	0.2124 mL	1.0622 mL	2.1245 mL
50 mM	0.0425 mL	0.2124 mL	0.4249 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

Mena-Avila E, et al. Clobenpropit, a histamine H3 receptor antagonist/inverse agonist, inhibits [3H]-dopamine uptake by human neuroblastoma SH-SY5Y cells and rat brain synaptosomes. *Pharmacol Rep.* 2018 Feb;70(1):146-155.

Esbenshade TA, et al. Two novel and selective nonimidazole histamine H3 receptor antagonists A-304121 and A-317920: I. In vitro pharmacological effects. *J Pharmacol Exp Ther.* 2003 Jun;305(3):887-96.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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