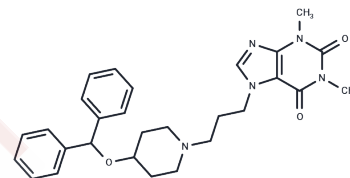


Wy 49051

Chemical Properties

CAS No. : 113418-56-7
 Formula: C₂₈H₃₃N₅O₃
 Molecular Weight: 487.59
 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	Wy 49051 is an orally active antagonist of H1 receptor(IC50 of 44 nM).
Targets(IC50)	Histamine Receptor
In vitro	Wy 49051 showed a great inhibitory effect on H1. At a concentration of 100 nM, it produced 92% inhibition of histamine-induced guinea pig ileal contraction. Wy 49051 is the most effective compound, with 700 times the potency of astemizole and 470 times the potency of hydroquinone. Wy 49051 also has high affinity for α 1 receptor with IC50 of 8 nM[1].
In vivo	Wy 49051 demonstrates efficacy in counteracting histamine-induced lethality in guinea pigs, with effective doses (ED50) of 1.91 mg/kg orally (po), 0.70 mg/kg intraperitoneally (ip), and 0.01 mg/kg intravenously (iv). Additionally, the compound maintains its oral efficacy without any reduction for up to 18 hours posttreatment[1].

Solubility Information

Solubility	DMSO: 45 mg/mL (92.29 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: 5 mg/mL (10.25 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	2.0509 mL	10.2545 mL	20.509 mL
5 mM	0.4102 mL	2.0509 mL	4.1018 mL
10 mM	0.2051 mL	1.0255 mL	2.0509 mL
50 mM	0.041 mL	0.2051 mL	0.4102 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

Abou-Gharbia M, et al. New antihistamines: substituted piperazine and piperidine derivatives as novel H1-antagonists. J Med Chem. 1995 Sep 29;38(20):4026-32.

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