Hydroxyzine pamoate

Cat. No.: HY-B0895

CAS No.: 10246-75-0

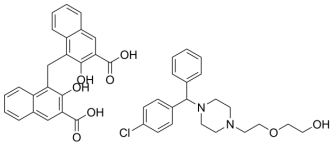
Molecular Formula: $C_{44}H_{43}ClN_2O_8$

Molecular Weight: 763.27

Target: Histamine Receptor

Pathway: GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling

Storage: 4°C, sealed storage, away from moisture
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (327.54 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	1.3102 mL	6.5508 mL	13.1015 mL
5 mM	0.2620 mL	1.3102 mL	2.6203 mL
10 mM	0.1310 mL	0.6551 mL	1.3102 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (2.73 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (2.73 mM); Clear solution

BIOLOGICAL ACTIVITY

Description Hydroxyzine pamoate is a histamine receptor H1 antagonist.

IC_{50} & Target H_1 Receptor

REFERENCES

[1]. Minogiannis, P., et al., Hydroxyzine inhibits neurogenic bladder mast cell activation. Int J Immunopharmacol, 1998. 20(10): p. 553-63.

[2]. Dimitriadou, V., X. Pang, and T.C. Theoharides, Hydroxyzine inhibits experimental allergic encephalomyelitis (EAE) and associated brain mast cell activation. Int J Immunopharmacol, 2000. 22(9): p. 673-84.

[3]. Kan, W.M., et al., Effect of hydroxyzine on the transport of etoposide in rat small intestine. Anticancer Drugs, 2001. 12(3): p. 267-73.

[4]. Morichi, R. and G. Pepeu, A study of the influence of hydroxyzine and diazepam on morphine antinociceptoion in the rat. Pain, 1979. 7(2): p. 173-80.

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