

Etiprednol dicloacetate

Chemical Properties

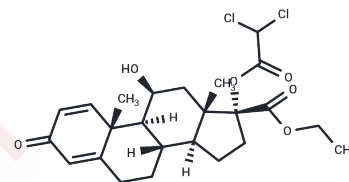
CAS No. : 199331-40-3

Formula: C₂₄H₃₀Cl₂O₆

Molecular Weight: 485.4

Storage: Keep away from moisture, Store at low temperature
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	Etiprednol dicloacetate (BNP-166) is a corticosteroid with anti-inflammatory activity. Etiprednol dicloacetate inhibits the accumulation of eosinophils and can be used in the study of inflammatory airway diseases such as asthma and in the treatment of Crohn's disease.
Targets(IC50)	Others, TNF
In vitro	Etiprednol dicloacetate (1 nM-1 μM) inhibits LPS-induced TNF-α production in human blood.[1]
In vivo	Etiprednol dicloacetate (0-100 μg/kg; intranasal inhalation) reduces peribronchial eosinophilia in the lungs of allergen-sensitized and challenged rats.[1] It is well-tolerated in rats and dogs at doses of up to 20 mg/kg administered orally over 28 days. [2] Etiprednol dicloacetate (0.1 μg/kg; intranasal inhalation) inhibits eosinophil accumulation in rats induced by antigen exposure.[3]

Solubility Information

Solubility	DMSO: 55 mg/mL (113.31 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0602 mL	10.3008 mL	20.6016 mL
5 mM	0.412 mL	2.0602 mL	4.1203 mL
10 mM	0.206 mL	1.0301 mL	2.0602 mL
50 mM	0.0412 mL	0.206 mL	0.412 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

- Kurucz I, et al. Potency and specificity of the pharmacological action of a new, antiasthmatic, topically administered soft steroid, etiprednol dicloacetate (BNP-166). *J Pharmacol Exp Ther.* 2003;307(1):83-92.
- Miklós A, et al. 28-day oral toxicity study with soft corticosteroid BNP-166 in rats and dogs, followed by a 14-day recovery period. *Pharmazie.* 2002;57(2):142-146.
- Kurucz I, et al. Anti-inflammatory effect and soft properties of etiprednol dicloacetate (BNP-166), a new, anti-asthmatic steroid. *Pharmazie.* 2004;59(5):412-416.
- Yang J, et al. Mechanism of gasdermin D recognition by inflammatory caspases and their inhibition by a gasdermin D-derived peptide inhibitor. *Proc Natl Acad Sci U S A.* 2018;115(26):6792-6797.

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