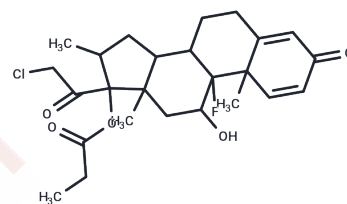


Clobetasol propionate

Chemical Properties

CAS No. :	25122-46-7
Formula:	C ₂₅ H ₃₂ ClFO ₅
Molecular Weight:	466.97
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Clobetasol propionate (CGP9555) exerts its effect by binding to cytoplasmic glucocorticoid receptors and subsequently activates glucocorticoid receptor-mediated gene expression. This results in the synthesis of certain anti-inflammatory proteins while inhibiting the synthesis of certain inflammatory mediators. Clobetasol Propionate is the propionate salt form of clobetasol, a topical synthetic corticosteroid with anti-inflammatory, antipruritic, and vasoconstrictive properties. Specifically, clobetasol propionate appears to induce phospholipase A2 inhibitory proteins, thereby controlling the release of the inflammatory precursor arachidonic acid from membrane phospholipids by phospholipase A2.
Targets(IC50)	Glucocorticoid Receptor, Cytochromes P450

Solubility Information

Solubility	H ₂ O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 86 mg/mL (184.17 mM), Sonication is recommended. Ethanol: 16 mg/mL (34.26 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	2.1415 mL	10.7073 mL	21.4147 mL
5 mM	0.4283 mL	2.1415 mL	4.2829 mL
10 mM	0.2141 mL	1.0707 mL	2.1415 mL
50 mM	0.0428 mL	0.2141 mL	0.4283 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.

Reference

Fitzgerald P, et al. Psychol Med. 2006 Jan;36(1):37-43.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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