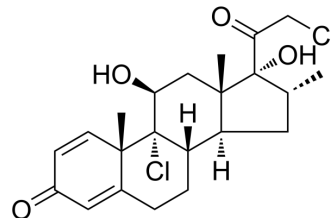


Mometasone

Cat. No.:	HY-B0629
CAS No.:	105102-22-5
Molecular Formula:	C ₂₂ H ₂₈ Cl ₂ O ₄
Molecular Weight:	427.36
Target:	Glucocorticoid Receptor
Pathway:	Immunology/Inflammation; Vitamin D Related/Nuclear Receptor
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (292.49 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.3399 mL	11.6997 mL	23.3995 mL
		5 mM	0.4680 mL	2.3399 mL	4.6799 mL
		10 mM	0.2340 mL	1.1700 mL	2.3399 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (4.87 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (4.87 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.87 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Mometasone is an inhaled glucocorticoid. Mometasone can be used in mild asthma with a low sputum eosinophil level. Mometasone has the potential for the research of chronic hand eczema and rhinosinusitis ^{[1][2]} .
In Vivo	Mometasone (0.1-3 mg/kg; intranasally) inhibits the increased airway sensitivity to aerosolized methacholine at the highest dose tested of 3 mg/kg, and dose-dependently inhibits the allergen-induced increase in Penh in a mouse model of allergic lung inflammation ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Veien NK, et al. Long-term, intermittent treatment of chronic hand eczema with mometasone furoate. Br J Dermatol. 1999 May;140(5):882-6.
- [2]. Lazarus SC, et al. Mometasone or Tiotropium in Mild Asthma with a Low Sputum Eosinophil Level. N Engl J Med. 2019 May 23;380(21):2009-2019.
- [3]. Wyss D, et al. Synergistic effect of formoterol and mometasone in a mouse model of allergic lung inflammation. Br J Pharmacol. 2007 Sep;152(1):83-90.
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Caution: Product has not been fully validated for medical applications. For research use only.

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