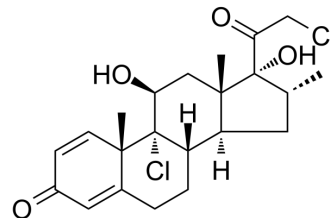


## Mometasone

Cat. No.:	HY-B0629
CAS No.:	105102-22-5
Molecular Formula:	C <sub>22</sub> H <sub>28</sub> Cl <sub>2</sub> O <sub>4</sub>
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		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		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	1. 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				
	2. 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				
	3. 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 <sup>[1][2]</sup> .
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 <sup>[3]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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- [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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