

Certificate of Analysis

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Product Name: Mometasone furoate

Catalog No.: 4115

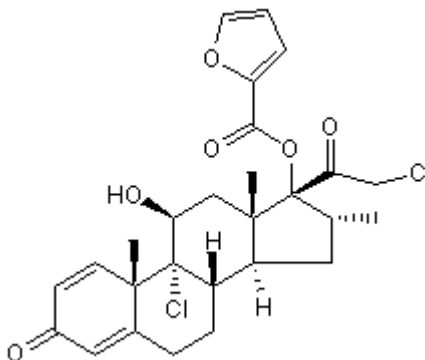
Batch No.: 1

CAS Number: 83919-23-7

IUPAC Name: 11 β ,16 α)-9,21-Dichloro-11-hydroxy-16-methyl-3,20-dioxopregna-1,4-dien-17-yl 2-furoate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₇H₃₀Cl₂O₆
Batch Molecular Weight: 521.43
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 10 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	62.19	5.8	
Found	62.2	5.74	

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

Product Information

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Description:

Potent synthetic corticosteroid; displays agonist activity at glucocorticoid and progesterone receptors. Exhibits anti-inflammatory effects.

Physical and Chemical Properties:

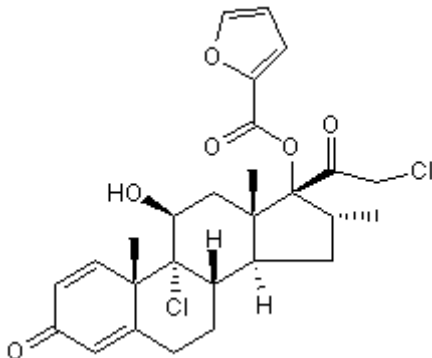
Batch Molecular Formula: C₂₇H₃₀Cl₂O₆

Batch Molecular Weight: 521.43

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 10 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Austin *et al* (2002) Mometasone furoate is a less specific glucocorticoid than fluticasone propionate. *Eur.Respir.J.* **20** 1386. PMID: 12503693.

Ogawa *et al* (2009) Dissociation of local anti-inflammatory effect and systemic effects of mometasone furoate in mice. *Immunopharmacol.Immunotoxicol.* **31** 601. PMID: 19874229.

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