

Product Name: Budesonide

Catalog No.: 2671

Batch No.: 2

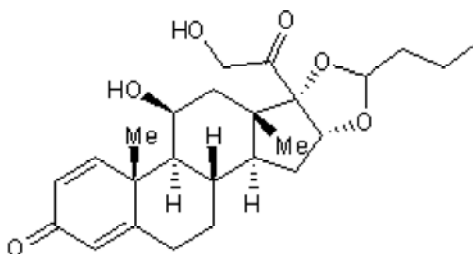
CAS Number: 51333-22-3

EC Number: 257-139-7

IUPAC Name: (11 β ,16 α)-16,17-[Butylidenebis(oxy)]-11,21-dihydroxypregna-1,4-diene-3,20-dione

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₅H₃₄O₆
Batch Molecular Weight: 430.53
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 50 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.4% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	69.74	7.96	
Found	69.56	8.04	

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

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IUPAC Name: (11 β ,16 α)-16,17-[Butylidenebis(oxy)]-11,21-dihydroxypregna-1,4-diene-3,20-dione

Description:

Synthetic anti-inflammatory glucocorticoid that displays chemopreventive activity. Prevents formation of lung adenomas and adenocarcinomas in mice following inhalation or oral administration. Reverses DNA hypomethylation and modulates expression of cancer related genes.

Physical and Chemical Properties:

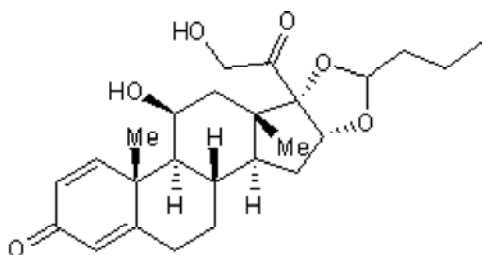
Batch Molecular Formula: C₂₅H₃₄O₆

Batch Molecular Weight: 430.53

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 50 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:

Wattenberg et al (2007) Chemoprevention of pulmonary carcinogenesis by aerosolized budesonide in female A/J mice. *Cancer Res.* **57** 5489.

Pereira et al (2006) Modulation by budesonide of DNA methylation and mRNA expression in mouse lung tumors. *Int.J.Cancer* **120** 1150.

Spencer et al (1995) Budesonide. A review of its pharmacological properties and therapeutic efficacy in inflammatory bowel disease. *Drugs* **50** 854. PMID: 8586030.

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