

**Product Name:** Ciclesonide

**Catalog No.:** 6357

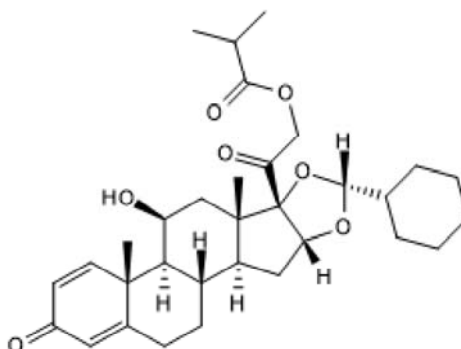
**Batch No.:** 1

CAS Number: 126544-47-6

IUPAC Name: (11 $\beta$ ,16 $\alpha$ )-16,17-[[*(R)*-Cyclohexylmethylene]bis(oxy)]-11-hydroxy-21-(2-methyl-1-oxopropoxy)pregna-1,4-diene-3,20-dione

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>32</sub>H<sub>44</sub>O<sub>7</sub>  
**Batch Molecular Weight:** 540.7  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
 ethanol to 100 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 100% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	71.08	8.2	
Found	71.1	8.31	

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**Description:**

Glucocorticoid antiasthmatic prodrug; de-esterified in the lung to active metabolite. Anti-inflammatory. Also blocks replication of SARS-CoV-2 in Vero cells in vitro by targeting viral NSP-15 (EC<sub>90</sub> = 6.3 $\mu$ M)..

**Physical and Chemical Properties:**

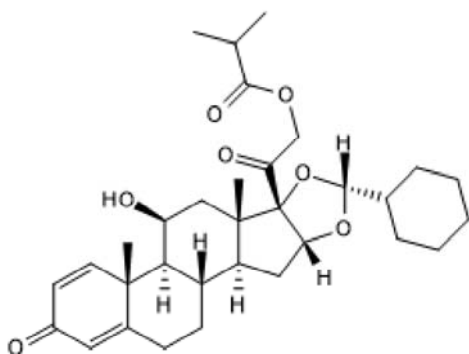
Batch Molecular Formula: C<sub>32</sub>H<sub>44</sub>O<sub>7</sub>

Batch Molecular Weight: 540.7

Physical Appearance: White solid

**Minimum Purity:**  $\geq$ 98%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 100 mM  
ethanol to 100 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:**

**Matsuyama et al (2020)** The inhaled corticosteroid ciclesonide blocks coronavirus RNA replication by targeting viral NSP15 BioRxiv - Paper not yet peer reviewed.

**Stoek et al (2004)** *In vitro* and *in vivo* anti-inflammatory activity of the new glucocorticoid cicles. J.Pharmacol.Exp.Ther. **309** 249. PMID: 14718604.

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