



LKT Laboratories, Inc.

Ciclesonide

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Product Information

Product ID C324091

CAS No. 126544-47-6

Chemical Name (R)-11beta,16alpha,17,21-Tetrahydroxypregna-1,4-diene-3,20-dione cyclic 16,17-acetal with cyclohexanecarboxaldehyde, 21-isobutyrate

Synonym Alvesco; Omnaris; Zetonna; RPR251526

Formula C₃₂H₄₄O₇

Formula Wt. 540.7

Melting Point

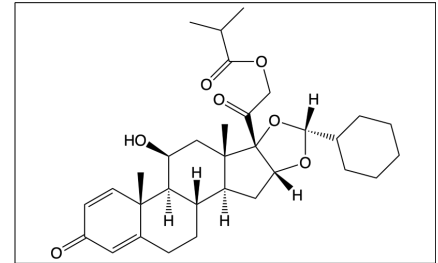
Purity ≥98%

Solubility Insoluble in water. Soluble in EtOH and DMSO.

Store Temp 4° C

Ship Temp Ambient

Description Ciclesonide is an anti-inflammatory corticosteroid. Its active metabolite and several ciclesonide-acetal derivatives have been found to block RNA replication of the SARS-CoV-2 virus. Ciclesonide also inhibits lung cancer stem cells through Hedgehog signaling-mediated SOX2 regulation.



Bulk quantities available upon request

Product ID	Size
C324091	5 mg
C324091	25 mg
C324091	100 mg

References H. Kimura, H. Kurusu, M. Sada, et al. Molecular pharmacology of ciclesonide against SARS-CoV-2. *J Allergy Clin Immunol.* (2020) 146:330-331.

G. Tsuji, S. Nakajima, K. Watashi, et al. Antiviral activity of ciclesonide acetal derivatives blocking SARS-CoV-2 RNA replication. *J Pharmacol Sci.* (2022) 149:81-84.

S. Matsuyama, M. Kawase, N. Nao, The Inhaled Steroid Ciclesonide Blocks SARS-CoV-2 RNA Replication by Targeting the Viral Replication-Transcription Complex in Cultured Cells. *J Virol.* (2020) (95)1648-20.

H. S. Choi, S-L Kim, J-H Kim and D-S Lee. The FDA-Approved Anti-Asthma Medicine Ciclesonide Inhibits Lung Cancer Stem Cells through Hedgehog Signaling-Mediated SOX2 Regulation. *Int J Mol Sci.* (2020) 21:1014.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.