

## Ciclesonide

Catalogue Number : 1264764

RUO: For Research Use Only. Not for use in diagnostic procedures.

### Product Information

**Synonyms:** Omnaris, Alvesco, Zetonna, Osonase

**Chemical Name:** [2-[(1S,2S,4R,6R,8S,9S,11S,12S,13R)-6-cyclohexyl-11-hydroxy-9,13-dimethyl-16-oxo-5,7-dioxapentacyclo[10.8.0.0.2,9.0.4,8.0.13,18]icosa-14,17-dien-8-yl]-2-oxoethyl] 2-methylpropanoate

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

**Molecular Weight:** 540.7

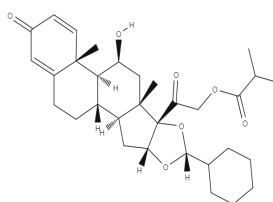
**CAS Number:** 126544-47-6

**Purity:** 98%

**Applications:** FA

**Formulation:** Crystalline solid

**Storage:** Product should be kept at -20°C.



### Description

Ciclesonide is a glucocorticoid anti-asthmatic prodrug that is cleaved by endogenous esterases to the active form in the lungs. It is typically used as a treatment for obstructive airway diseases and exhibits anti-inflammatory properties. It is currently being researched as a potential treatment for COVID-19.

### Preparation & Storage

Soluble in organic solvents such as ethanol and DMSO. It is soluble in DMSO up to 25mg/ml.

### References

- 1.Reynolds, N. A., Scott, L. J. (2004). Ciclesonide. *Drugs*,64(5), 511-519.
2. Keller, K. D. R. E. A. (2001). Ciclesonide: an on-site-activated steroid. *New drugs for asthma, allergy and COPD*,31, 91-93.
3. Matsuyama, S., Kawase, M., Nao, N., Shirato, K., Ujike, M., Kamitani, W., ... Fukushi, S. (2020). The inhaled corticosteroid ciclesonide blocks coronavirus RNA replication by targeting viral NSP15. *bioRxiv*.