

Product Data Sheet

Product Name: Ciclesonide-d7

Cat. No.: GC45409

Chemical Properties

Cas. No. 1225382-70-6

SMILES O=C1C=C[C@@]2(C)C(CC[C@]3([H])[C@]2([H])[C@@H](O)C[C@@]4(C)[C@@]3([H])C[C@]5([H])[C@@]4(C(COC(C(C([2H])([2H])[2H])([2H])C([2H])([2H])[2H])=O)=O)O[C@@](C6CCCCC6)([H])O5)=C1

Formula C32H37D7O7

M.Wt 547.7

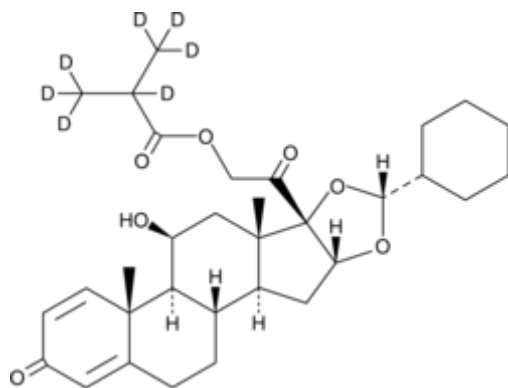
Solubility Chloroform: slightly soluble, Methanol: slightly soluble

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Ciclesonide-d7 is intended for use as an internal standard for the quantification of ciclesonide by GC- or LC-MS. Ciclesonide is a prodrug form of the glucocorticoid receptor agonist desisobutryl-CIC (des-CIC).¹ CIC binds to the glucocorticoid receptor with a K_i value of 37 nM.² It is selective for the glucocorticoid receptor over the estrogen, progesterone, and testosterone receptors. CIC inhibits eosinophil influx into the lung (ED_{50} = 0.49 mg/kg) and reduces sephadex-induced lung edema (ED_{50} = 0.72 mg/kg) in a rat model of ovalbumin-sensitized and -challenged airway inflammation.

Caution: Product has not been fully validated for medical applications. For research use only.

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Formulations containing CIC have been used in the maintenance treatment of asthma and in the treatment of allergic rhinitis.

References

1. Derendorf, H., Nave, R., Drollmann, A., et al. Relevance of pharmacokinetics and pharmacodynamics of inhaled corticosteroids to asthma. *Eur. Respir. J.* 28(5), 1042-1050 (2006).
2. Belvisi, M.G., Bundschuh, D.S., Stoeck, M., et al. Preclinical profile of ciclesonide, a novel corticosteroid for the treatment of asthma. *J. Pharmacol. Exp. Ther.* 314(2), 568-574 (2005).

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