



Desisobutyryl-ciclesonide

Catalog No: tcsc0042213

Available Sizes	
Size: 5mg	
Size: 10mg	
Size: 25mg	
Specifications	
CAS No: 161115-59-9	
Formula: C ₂₈ H ₃₈ O ₆	
Pathway: GPCR/G Protein	
Target: Glucocorticoid Receptor	
Purity / Grade: >98%	
Solubility: 10 mM in DMSO	
Alternative Names: CIC-AP;Ciclesonide active principle	
Observed Molecular Weight: 470.6	
Product Description	





Desisobutyryl-ciclesonide is the active metabolite of Ciclesonide. Desisobutyryl-ciclesonide has affinity for the **glucocorticoid receptor**.

IC50 & Target: Glucocorticoid receptor^[1]

In Vitro: Ciclesonide, an inhaled corticosteroid with almost no affinity for the glucocorticoid receptor, is highly effective in downregulating in vitro pro-inflammatory activities of airway parenchymal cells when converted into the active metabolite Desisobutyryl-ciclesonide. Peripheral blood mononuclear cell proliferation to *C. albicans* is dose-dependently inhibited by 0.3-3.0 μM Ciclesonide and Desisobutyryl-ciclesonide but inhibition by Desisobutyryl-ciclesonide is higher. A significant proliferation to *PhIP5* is observed only in cultures from atopic subjects: an effective downregulation is already detected at 0.03 μM Ciclesonide and 0.003 μM Desisobutyryl-ciclesonide (complete inhibition at 3 μM Ciclesonide and 0.03 μM Desisobutyryl-ciclesonide). 3 μM Ciclesonide and Desisobutyryl-ciclesonide reduce the *PhIP5*-specific T-cell blast proliferation and interleukin 4-producing cell proportion. In PBMCs cultures from atopic patients, both Ciclesonide (CIC) and Desisobutyryl-ciclesonide (des-CIC) induce a dose-dependent downregulation of *PhIP5*-induced proliferation. The effect is already significantat 0.03 μM Ciclesonide and at 0.003 μM (p[1].

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