
Product Data Sheet

Product Name: Budesonide impurity C

Cat. No.: GC68814

Chemical Properties

Cas. No. 1040085-99-1

Formula $C_{25}H_{34}O_6$ M.Wt 430.53Solubility Storage Store at $-20^{\circ}C$

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ 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**

Budesonide impurity C is an impurity of Budesonide. Budesonide, an inhaled glucocorticoid steroid, is an orally active glucocorticoid receptor agonist^{[1][2]}.

Budesonide is selective for human glucocorticoid receptor (hGR; $EC_{50}=45.7$ pM) over mineralocorticoid receptors ($EC_{50}=7,620$ pM) in CV-1 cells^[1].

Budesonide (30 min prior to LPS) suppresses the activation of the NLRP3 inflammasome by LPS (100 ng/mL) plus ATP (5 mM) in macrophages (RAW 264.7 cells)^[2].

[1]. Patrizia Ferraboschi, et al. Estimation and Characterisation of Budesonide Tablets Impurities. J Pharm Biomed Anal. 2008 Jul 15;47(3):636-40.

[2]. Claudia Grossmann, et al. Transactivation via the Human Glucocorticoid and Mineralocorticoid Receptor by Therapeutically Used Steroids in CV-1 Cells: A Comparison of Their Glucocorticoid and Mineralocorticoid Properties. Eur J Endocrinol. 2004 Sep;151(3):

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

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