Phone: 888-558-5227

651-644-8424

888-558-7329 Fax: Email: getinfo@lktlabs.com

Web: lktlabs.com

Product Information

Product ID F4683 CAS No. 80474-14-2

Chemical Name

Synonym

Formula C₂₅H₃₁F₃O₅S Formula Wt. 500.57 Melting Point 272-273°C

Purity ≥98%

Solubility 10 mg/ml DMSO

Bulk quanitites available upon request

Product ID	Size
F4683	10 mg
F4683	25 mg
F4683	100 mg

Store Temp Ambient Ship Temp Ambient

Description Fluticasone is an agonist at β2-adrenergic receptors that is clinically used to treat asthma and COPD; it exhibits anti-inflammatory, vasodilatory, anti-asthma, and anti-allergic activities. In airway epithelial cells, fluticasone increases expression of IκB kinase, preventing activation of NF-kB. In other in vitro models, fluticasone decreases lymphocyte activation, particularly mast cell activation, and decreases IL-6 levels. In animal models, fluticasone upregulates Smad7 and downregulates phospho-Smad2/3 and TGF-β1 levels, preventing eosinophilic inflammation and airway remodeling.

Kan-O K, Matsumoto K, Inoue H, et al. Corticosteroids plus long-acting β2-agonists prevent double-stranded RNAinduced upregulation of B7-H1 on airway epithelium. Int Arch Allergy Immunol. 2013;160(1):27-36. PMID: 22948082.

Mendes ES, Horvath G, Campos M, et al. Rapid corticosteroid effect on beta(2)-adrenergic airway and airway vascular reactivity in patients with mild asthma. J Allergy Clin Immunol. 2008 Mar;121(3):700-4. PMID: 18086493.

Lee SY, Kim JS, Lee JM, et al. Inhaled corticosteroid prevents the thickening of airway smooth muscle in murine model of chronic asthma. Pulm Pharmacol Ther. 2008;21(1):14-9. PMID: 17142077.

Edwards MR, Haas J, Panettieri RA Jr, et al. Corticosteroids and beta2 agonists differentially regulate rhinovirusinduced interleukin-6 via distinct Cis-acting elements. J Biol Chem. 2007 May 25:282(21):15366-75. PMID: 17395587.

Booth H, Richmond I, Ward C, et al. Effect of high dose inhaled fluticasone propionate on airway inflammation in asthma. Am J Respir Crit Care Med. 1995 Jul;152(1):45-52. PMID: 7599861.

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