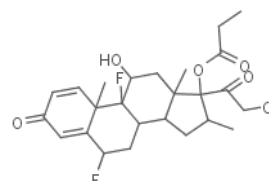


Product Name : Halobetasol Propionate
Synonyms : BMY-30056; CGP-14458; Ullobetasol propionate
Cat No. : M18974
CAS Number : 66852-54-8
Molecular Formula : C₂₅H₃₁ClF₂O₅
Formula Weight : 484.96
Chemical Name : —



Description : Halobetasol Propionate is the propionate salt form of halobetasol, a synthetic corticosteroid with anti-inflammatory, antipruritic, and vasoconstrictor activities. Halobetasol, a topical steroid, diffuses across cell membranes to interact with cytoplasmic corticosteroid receptors located in both the dermal and intradermal cells, thereby activating gene expression of anti-inflammatory proteins mediated via corticosteroid receptor response element. Specifically, this agent induces phospholipase A2 inhibitory proteins, which inhibit the release of arachidonic acid, thereby inhibiting the biosynthesis of potent mediators of inflammation, such as prostaglandins and leukotrienes. As a result, halobetasol reduces edema, erythema, and pruritus through its cutaneous effects on vascular dilation and permeability.

Pathway : GPCR/G Protein

Target : Histamine Receptor

Receptor : PLA2

Solubility : DMSO : ≥ 35 mg/mL; 72.17 mM

SMILES : CC(=O)OCC12CC[C@]1(C)[C@H]([C@@H]2[C@@H]3C[C@H]([C@@H]3C(=O)C=C)C=C)C(F)(F)C(=O)CCl

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Mohandas S, et al. Indian J Dermatol Venereol Leprol, 2009, 75(2), 186-187.