



LKT Laboratories, Inc.

Hydrocortisone

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Product Information

Product ID H9611

CAS No. 50-23-7

Chemical Name (11 β)-11,17,21-Trihydroxypregn-4-ene-3,20-dione

Synonym Cortisol, Anflam, Dermacortal, Efcortelan, Ficortril, Hydracort, Medicort, Penecort, Texacort, Zenoxone

Formula C₂₁H₃₀O₅

Formula Wt. 362.46

Melting Point 217-220 °C

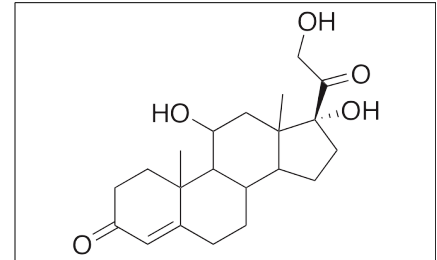
Purity ≥98%

Solubility Soluble in ethanol (25 mg/mL), acetone (12 mg/mL), or propylene glycol. Very slightly soluble in ether or water.

Store Temp Ambient

Ship Temp Ambient

Description Hydrocortisone is a steroid hormone that is produced in the adrenal cortex and is involved in stress signaling. Hydrocortisone is a glucocorticoid and is also known as cortisol in its endogenous form; it exhibits anti-inflammatory and immunomodulatory activities. Hydrocortisone is clinically used to treat eczema, psoriasis, gout, and severe allergic reactions. Hydrocortisone stimulates gluconeogenesis, inhibits inflammatory cytokine production, and shifts the immune response from Th1 to Th2 subtype.



Bulk quantities available upon request

Product ID	Size
H9611	5 g
H9611	10 g
H9611	25 g

References Angelier F, Wingfield JC. Importance of the glucocorticoid stress response in a changing world: theory, hypotheses and perspectives. *Gen Comp Endocrinol.* 2013 Sep 1;190:118-28. PMID: 23770214.

Tarchalska-Kryńska B. Glucocorticosteroids: mechanism of action, pharmacological effects, pharmacokinetics and adverse effects. *Otolaryngol Pol.* 1994;48 Suppl 17:41-8. PMID: 8090502.

Sluysers M. Mechanism of steroid hormone action at the cellular level. *Basic Life Sci.* 1975;6:79-104. PMID:168860.

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