



LKT Laboratories, Inc.

Dexamethasone

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Product Information

Product ID D1693

CAS No. 50-02-2

Chemical Name (11 β ,16 α)-9-Fluoro-11,17,21-trihydro-16-methyl- pregna-1,4-diene-3,20-dione

Synonym Decadron, Maxidex

Formula C₂₂H₂₉FO₅

Formula Wt. 392.46

Melting Point 223-233 °C

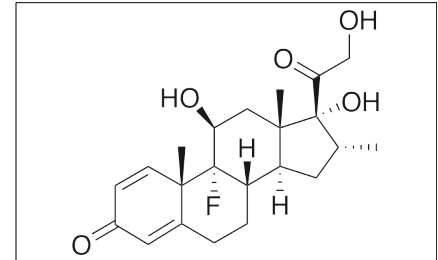
Purity ≥97%

Solubility Soluble in DMF (25 mg/mL) and DMSO (25 mg/mL). Sparingly soluble in ethanol. Insoluble in water.

Store Temp Ambient

Ship Temp Ambient

Description Dexamethasone is a glucocorticoid that exhibits anti-inflammatory and immunosuppressive activities with minimal mineralocorticoid effect. Under inflammatory conditions, dexamethasone decreases secretion of TNF, IL-6, and IL-18, inhibiting migration and maturation of macrophages. Dexamethasone may also display anti-asthma benefit as well, through the upregulation of PTEN expression. Additionally, dexamethasone is often used in combination with other chemotherapies in the treatment of multiple myeloma.



Bulk quantities available upon request

Product ID	Size
D1693	100 mg
D1693	500 mg
D1693	1 g

References Bartneck M, Peters FM, Warzecha KT, et al. Liposomal encapsulation of dexamethasone modulates cytotoxicity, inflammatory cytokine response, and migratory properties of primary human macrophages. *Nanomedicine*. 2014 Mar 7. [Epub ahead of print]. PMID: 24607939.

Ni Z, Tang J, Cai Z, et al. A new pathway of glucocorticoid action for asthma treatment through the regulation of PTEN expression. *Respir Res*. 2011 Apr 14;12:47. PMID: 21489309.

Morgan G. Future drug developments in multiple myeloma: an overview of novel lenalidomide-based combination therapies. *Blood Rev*. 2010 Nov;24 Suppl 1:S27-32. PMID: 21126634.

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