



LKT Laboratories, Inc.

Dexamethasone Acetate Monohydrate

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Product Information

Product ID D1694

CAS No. 55812-90-3

Chemical Name (11B, 16 α)-9-Fluoro-11,17,21-trihydroxy-16-methylpregna-1,4-diene-3,20-dione 21-acetate

Synonym Dexamethasone 21-Acetate, Decadronal, Dectancyl, Dexacortisyl

Formula C₂₄H₃₁FO₆ • H₂O

Formula Wt. 452.52

Melting Point 229-231 °C

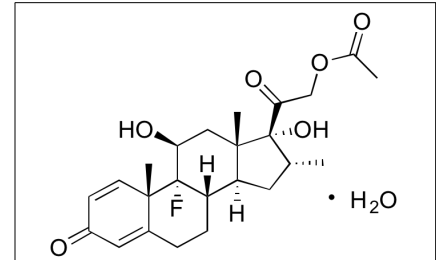
Purity ≥98%

Solubility

Store Temp 4° C

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 chemotherapeutics in the treatment of multiple myeloma.



Bulk quantities available upon request

Product ID **Size**

D1694 100 mg

D1694 500 mg

D1694 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.