



# LKT Laboratories, Inc.

## Dexamethasone

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### Product Information

**Product ID** D1693

**CAS No.** 50-02-2

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

**Synonym** Decadron, Maxidex

**Formula** C<sub>22</sub>H<sub>29</sub>FO<sub>5</sub>

**Formula Wt.** 392.46

**Melting Point** 223-233 °C

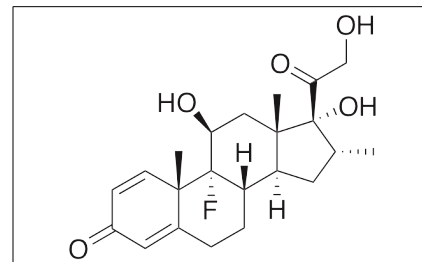
**Purity** ≥97%

**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. TEST!!!!!!



### Pricing and Availability

**Bulk quantities available upon request**

Product ID	Size	List Price
D1693	100 mg	\$71.70
D1693	500 mg	\$165.40
D1693	1 g	\$220.50

**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.