



LKT Laboratories, Inc.

Prednisolone

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Product Information

Product ID P6818
CAS No. 50-24-8
Chemical Name (11B)-11,17,21-Trihydroxypregna-1,4-diene-3,20-dione

Synonym Cortalone, Decaprednil, Decortin H, Deltasolone, Flamasone, Hydrodeltalone, Paracortol, Sterolone

Formula $C_{21}H_{28}O_5$

Formula Wt. 360.44

Melting Point 240-241 °C(dec)

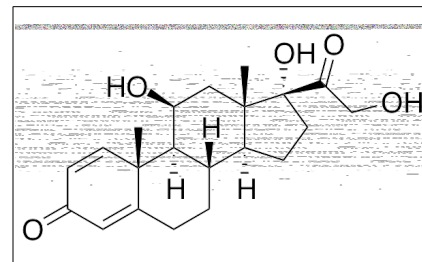
Purity ≥98%

Solubility Slightly soluble in water (1 mM). Soluble in methanol and dioxane. Soluble in ethanol (33 mg/mL), DMSO (633 mM)

Store Temp Ambient

Ship Temp Ambient

Description Prednisolone is a derivative of cortisol and a metabolite of prednisone; it exhibits immunosuppressive and anti-inflammatory activities. Prednisolone activates glucocorticoid receptors and is clinically used to treat inflammatory and autoimmune disorders. In mononuclear cells from subjects with multiple sclerosis, prednisolone decreases expression of T-bet, IFN γ , and phosphorylated STAT1, decreasing lymphocyte apoptosis. Additionally, prednisolone delays the progression of Duchenne muscular dystrophy (DMD), altering muscle fiber types in vivo.



Bulk quantities available upon request

Product ID	Size
P6818	1 g
P6818	5 g
P6818	10 g

References Frisullo G, Nociti V, Iorio R, et al. Glucocorticoid treatment reduces T-bet and pSTAT1 expression in mononuclear cells from relapsing remitting multiple sclerosis patients. Clin Immunol. 2007 Sep;124(3):284-93. PMID: 17627892.

Fisher I, Abraham D, Bouri K, et al. Prednisolone-induced changes in dystrophic skeletal muscle. FASEB J. 2005 May;19(7):834-6. Erratum in: FASEB J. 2005 May;19(7):1 p following 836. Hoffmann, Eric P [corrected to Hoffman, Eric P]. PMID: 15734791.

Davis M, Williams R, Chakraborty J, et al. Prednisone or prednisolone for the treatment of chronic active hepatitis? A comparison of plasma availability. Br J Clin Pharmacol. 1978 Jun;5(6):501-5. PMID: 656293.

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