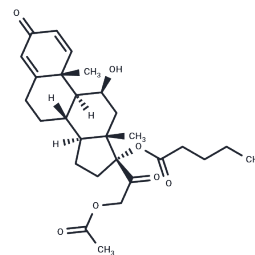


Prednisolone valerate acetate

Chemical Properties

CAS No. :	72064-79-0
Formula:	C ₂₈ H ₃₈ O ₇
Molecular Weight:	486.6
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Prednisolone valerate acetate (Lidomex) is a corticosteroid hormone and prodrug with anti-inflammatory and immunosuppressive effects, which is converted to the active form of Prednisolone upon administration and acts by targeting the glucocorticoid receptor.
Targets(IC50)	Glucocorticoid Receptor
In vivo	Prednisolone valerate acetate (PVA) was administered to mice via s.c. injection at 0.03-1 mg/kg, with immune responses assessed at 24-48 h and 5-7 d for antibody production. PVA reduced spleen weight and splenic nucleated cell counts, suppressed hemolytic plaque-forming cell (PFC) formation, delayed-type hypersensitivity (DTH), and ConA-induced splenocyte proliferation. Notably, PVA inhibited LPS-induced splenocyte response and IgM antibody production at lower doses than hydrocortisone 17-butyrate (HB), indicating higher potency. Unlike HB and betamethasone 17-valerate (BV), PVA had no effect on PHA-P response. Its suppression of host defense against experimental E. coli infection was weaker than that of HB and BV. [1]

Solubility Information

Solubility	DMSO: 4 mg/mL (8.22 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0551 mL	10.2754 mL	20.5508 mL
5 mM	0.411 mL	2.0551 mL	4.1102 mL
10 mM	0.2055 mL	1.0275 mL	2.0551 mL
50 mM	0.0411 mL	0.2055 mL	0.411 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Oh-i T. Contact dermatitis due to topical steroids with conceivable cross reactions between topical steroid preparations. *J Dermatol.* 1996 Mar;23(3):200-8.
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- Wada Y, Etoh Y, Ohira A, Ikuta J, Kato Y, Sano N. [Anti-inflammatory effects of prednisolone 17-valerate 21-acetate, a new topical corticosteroid (author's transl)]. *Nihon Yakurigaku Zasshi.* 1980 Sep;76(5):333-45. Japanese. PubMed PMID: 7203275.
- Garretts M. Controlled double-blind comparative trial with fluprednylidene acetate cream and its base. *Arch Dermatol Forsch.* 1975;251(3):165-8. PubMed PMID: 1091216.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481