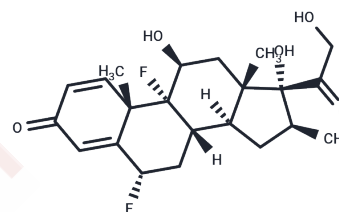


Diflorasone

Chemical Properties

CAS No. :	2557-49-5
Formula:	C ₂₂ H ₂₈ F ₂ O ₅
Molecular Weight:	410.45
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Diflorasone is a synthetic glucocorticoid with anti-inflammatory and immunosuppressive properties. Like other glucocorticoids, diflorasone enters the cell by diffusion across the cell membrane and binds to the glucocorticoid receptor (GR) in the cytoplasm. The receptor complex subsequently translocates to the nucleus and activates or represses genes by interacting with short, palindromic DNA sequences called glucocorticoid response element (GRE). Gene activation leads to the exertion of anti-inflammatory effects, e.g. upregulation of IκBα, while gene repression inhibits production of pro-inflammatory cytokines such as interleukin-1 (IL-1), IL-2 and IL-6, thereby preventing activation of cytotoxic T-lymphocytes.
Targets(IC50)	Glucocorticoid Receptor, Others

Solubility Information

Solubility	DMSO: 250 mg/mL (609.09 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (24.36 mM), Solution. 10% DMSO+90% Saline: < 10 mg/mL (24.36 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4364 mL	12.1818 mL	24.3635 mL
5 mM	0.4873 mL	2.4364 mL	4.8727 mL
10 mM	0.2436 mL	1.2182 mL	2.4364 mL
50 mM	0.0487 mL	0.2436 mL	0.4873 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

Pearce DJ, et al. J Dermatolog Treat. 2004 Jul;15(4):235-8.

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