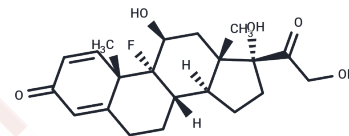


Isoflupredone

Chemical Properties

CAS No. :	338-95-4
Formula:	C ₂₁ H ₂₇ F ₀ O ₅
Molecular Weight:	378.43
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	Isoflupredone (Isoflupredonum) is a synthetic corticosteroid that acts in vivo by binding to glucocorticoid and corticosteroid receptors in animals (such as horses) to inhibit inflammatory cells and inhibit the expression of inflammatory mediators. Isoflupredone has anti-inflammatory and immunosuppressive effects and can be used to treat a variety of musculoskeletal, allergic and systemic inflammatory diseases.
Targets(IC50)	Glucocorticoid Receptor,Others
In vivo	Isoflupredone effectively reduces serum potassium levels in horses and serves as a potent medication for managing recurrent airway obstruction in these animals [1].

Solubility Information

Solubility	DMSO: 12 mg/mL (31.71 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: 2 mg/mL (5.28 mM),Sonication is recommended. <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	2.6425 mL	13.2125 mL	26.425 mL
5 mM	0.5285 mL	2.6425 mL	5.285 mL
10 mM	0.2642 mL	1.3212 mL	2.6425 mL
50 mM	0.0528 mL	0.2642 mL	0.5285 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

Picandet V, et al. Comparison of efficacy and tolerability of isoflupredone and dexamethasone in the treatment of horses affected with recurrent airway obstruction ('heaves'). *Equine Vet J.* 2003;35(4):419-424.

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