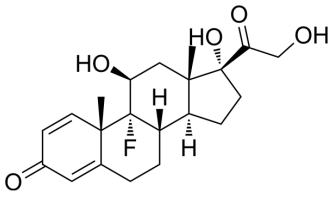
Isoflupredone

Cat. No.:	HY-132269
CAS No.:	338-95-4
Molecular Formula:	$C_{21}H_{27}FO_5$
Molecular Weight:	378.43
Target:	Others
Pathway:	Others
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (66.06 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.6425 mL	13.2125 mL	26.4250 mL
	5 mM	0.5285 mL	2.6425 mL	5.2850 mL
	10 mM	0.2642 mL	1.3212 mL	2.6425 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (5.50 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (5.50 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (5.50 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Isoflupredone belongs to the class of corticosteroids and exerts its effect by binding to glucocorticoid and mineralocorticoid receptors of animals, such as horses. Isoflupredone can be used in wide range of conditions, such as infection and inflammatory diseases[1].

In Vivo

Isoflupredone shows a significant decrease in serum potassium level in horses. Isoflupredone is a potent drug for the treatment of recurrent airway obstruction affected horses[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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