Proteins

Product Data Sheet



Isoflupredone acetate

Cat. No.: HY-134116 CAS No.: 338-98-7 Molecular Formula: $C_{23}H_{29}FO_{6}$ Molecular Weight: 420.47 Target: Others Pathway: Others

Storage: Powder -20°C 3 years

> -80°C In solvent 6 months

-20°C 1 month

SOLVENT & SOLUBILITY

In Vitro

DMSO: 125 mg/mL (297.29 mM; Need ultrasonic)

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.3783 mL	11.8915 mL	23.7829 mL
	5 mM	0.4757 mL	2.3783 mL	4.7566 mL
	10 mM	0.2378 mL	1.1891 mL	2.3783 mL

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

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Description	Isoflupredone acetate is a corticosteroids with anti-inflammatory activity. Isoflupredone acetate can be used for research ketosis, musculoskeletal disorders, hypersensitivity, infections, inflammatory diseases in cows, horse, pigs, et al. ^{[1][2]} .	
In Vitro	Isoflupredone acetate (10^{-4} , 10^{-7} , or 10^{-10} M; 48 or 96 h)mitigates the inflammatory and catabolic effects of IL-1 β in synovial and osteochondral explants (from equine cadavers) to a greater extent in low concentrations (10^{-7} M and 10^{-10} M) than the high concentration (10^{-4} M) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
In Vivo	Isoflupredone acetate (0.05 mg/kg; i.m.; on days 2 and 4 after the challenge) prevents dry-matter intake and average daily gain reductions, and leads to faster Mannheimia haemolytica-infected clinical improvement when co-treated with Oxytetracycline (HY-B0275) ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Animal Model: 96 weanling heifers (Bronchopneumonia was induced by intrabronchial infusion of Mannheimia haemolytica) ^[2]	

Dosage:	0.05 mg/kg	
Administration:	i.m.; on days 2 and 4 after the challenge	
Result:	Infection caused a reduction in dry-matter intake and average daily gain (ADG) in heifers. Prevented these reductions and resulted in faster clinical improvement when cotreated with Oxytetracycline (HY-B0275).	

REFERENCES

[1]. Trahan RA, et al. In vitro effects of three equimolar concentrations of methylprednisolone acetate, triamcinolone acetonide, and isoflupredone acetate on equine articular tissue cocultures in an inflammatory environment. Am J Vet Res. 2018 Sep;79(9):933-940.

[2]. Hewson J, et al. Impact of isoflupredone acetate treatment on clinical signs and weight gain in weanling heifers with experimentally induced Mannheimia haemolytica bronchopneumonia. Am J Vet Res. 2011 Dec;72(12):1613-21.

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

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