

Isoflupredone Acetate

Chemical Properties

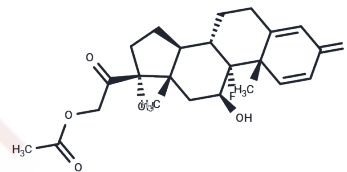
CAS No. : 338-98-7

Formula: C₂₃H₂₉F₀₆

Molecular Weight: 420.47

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 Acetate is a corticosteroid with the activity of topical anti-inflammatory.
Targets(IC50)	Glucocorticoid Receptor,Others

Solubility Information

Solubility	DMSO: 60 mg/mL (142.7 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	2.3783 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
50 mM	0.0476 mL	0.2378 mL	0.4757 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

Trahan RA, Byron CR, Dahlgren LA, Pleasant RS, Werre SR. 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. doi: 10.2460/ajvr.79.9.933. PubMed PMID: 30153056.

Knych HK, Harrison L, Chouicha N, Kass PH. Expression of inflammatory and structural matrix genes in synovial fluid following intra-articular administration of isoflupredone acetate to exercised horses. *Equine Vet J.* 2018 Jul;50(4):504-512. doi: 10.1111/evj.12771. Epub 2017 Nov 17. PubMed PMID: 29044706.

Cho SH, Park JA, Zheng W, Abd El-Aty AM, Kim SK, Choi JM, Yi H, Cho SM, Afifi NA, Shim JH, Chang BJ, Kim JS, Shin HC. Quantification of bupivacaine hydrochloride and isoflupredone acetate residues in porcine muscle, beef, milk, egg, shrimp, flatfish, and eel using a simplified extraction method coupled with liquid chromatography-triple quadrupole tandem mass spectrometry. *J Chromatogr B Analyt Technol Biomed Life Sci.* 2017 Oct 15;1065-1066:29-34. doi: 10.1016/j.jchromb.2017.09.026. Epub 2017 Sep 19. PubMed PMID: 28946122.

Knych HK, Harrison LM, White A, McKemie DS. Disposition of isoflupredone acetate in plasma, urine and synovial fluid following intra-articular administration to exercised Thoroughbred horses. *Drug Test Anal.* 2016 Jan;8(1):141-7. doi: 10.1002/dta.1834. Epub 2015 Sep 1. PubMed PMID: 26333097.

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