
Product Data Sheet

Product Name: Isoflupredone acetate

Cat. No.: GC66448

Chemical Properties

Cas. No. 338-98-7

Formula $C_{23}H_{29}FO_6$

M.Wt 420.47

Solubility DMSO : 125 mg/mL (297.29 mM; Need ultrasonic) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

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]}.

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].

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 ^[2].

Animal Model: 96 weanling heifers (Bronchopneumonia was induced by intrabronchial infusion of *Mannheimia haemolytica*)^[2]

Dosage: 0.05 mg/kg

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

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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 co-treated with Oxytetracycline .

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