

Prevail[™]

Prevail (flunixin meglumine 50 mg/mL) is a potent, non-narcotic, nonsteroidal, analgesic agent with anti-inflammatory and antipyretic activity.

Prevail is indicated for use in horses to alleviate inflammation and pain associated with musculoskeletal disorders, and to alleviate the visceral pain associated with colic. Administer IV or IM.

Prevail is indicated for use in beef and dairy cattle to control pyrexia associated with bovine respiratory disease and endotoxemia, and to control inflammation in endotoxemia. Not for use in bulls intended for breeding, dry dairy cows, or veal calves. Meat withdrawal: 4 days. Milk withhold: 36 hours. Administer IV.

ITEM#	DESCRIPTION	SIZE
501018	Prevail	100 mL
502018	Prevail	250 mL



Available exclusively through your veterinarian from:



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Injectable Solution 50 mg/mL

ANADA 200-308, Approved by FDA Veterinary

For Intravenous or Intramuscular Use in Horses and for Intravenous Use in Beef and Dairy Cattle. Not for Use in Dry Dairy Cows and Veal Calves.

Federal law restricts this drug to use by or on the order of a licensed veterinarian.

Description

Each milliliter of Prevail™ contains flunixin meglu mine equivalent to 50 mg flunixin, 0.1 mg edetate disodium, 2.5 mg sodium formaldehyde sulphoxylate, 4.0 mg diethanolamine, 207.2 mg propylene glycol, 5.0 mg phenol as preservative, hydrochloric acid, water for injection q.s.

Pharmacology

Flunixin meglumine is a potent, non-narcotic, nonsteroidal, analgesic agent with anti-inflammatory and anti-pyretic activity. It is significantly more potent than pentazocine, meperidine, and codeine as an analgesic in the rat yeast paw test.

Horse: Flunixin is four times as potent on a mg per mg basis as phenylbutazone as measured by the reduction in lameness and swelling in the horse. Plasma half-life in horse serum is 1.6 hours following a single dose of 1.1 mg/kg. Measurable amounts are detectable in horse plasma at 8 hours post injection.

Cattle: Flunixin meglumine is a weak acid (pKa=5.82) which exhibits a high degree of plasma protein binding (approximately 99%). However, free (unbound) drug appears to readily partition into body tissues (VSS predictions range from 297 to 782 mL/kg. Total body water is approximately equal to 570 mL/kg).6 In cattle, elimination occurs primarily through biliary excretion.7 This may, at least in part, explain the presence of multiple peaks in the blood concentration/time profile following IV administration.2

In healthy cattle, total body clearance has been reported to range from 90 to 151 mL/kg/hr.2-5 These studies also report a large discrepancy between the volume of distribution at steady state (VSS) and the volume of distribution associated with the terminal elimination phase (VB). This discrepancy appears to be attributable to extended drug elimination from a deep compartment.⁸ The terminal half-life has been shown to vary from 3.14 to 8.12 hours.²⁻⁵

Flunixin persists in inflammatory tissues9 and is associated with anti-inflammatory properties which extend well beyond the period associated with detectable plasma drug concentration. ^{4,9} These observations account for the counterclockwise hysteresis associated with flunixin's pharmacokinetic/pharmacodynamic relationships.¹⁰ Therefore, prediction of drug concentrations based upon the estimated plasma terminal elimination half-life will likely underestimate both the duration of drug action and the concentration of drug remaining at the site of activity.

Indications

Horse: Prevail™ is recommended for the alleviation of inflammation and pain associated with musculoskeletal disorders in the horse. It is also recommended for the alleviation of visceral pain associated with colic in the horse.
Cattle: Prevail™ is indicated for the control of

pyrexia associated with bovine respiratory disease and endotoxemia. Prevail[™] is also indicated for the control of inflammation in endotoxemia.

Dose and Administration

Horse: The recommended dose for musculoskeletal disorders is 0.5 mg per pound (1 mL/100 lbs) of bodyweight once daily. Treatment may be given by intravenous or intramuscular injection and repeated for up to 5 days. Studies show onset of activity is within 2 hours. Peak response occurs between 12 and 16 hours and duration of activity is 24-36 hours. The recommended dose for the alleviation of pain associated with equine colic is 0.5 mg per pound of bodyweight. Intravenous administration is recommended for prompt relief. Clinical studies show pain is alleviated in less than 15 minutes in many cases. Treatment may be repeated when signs of colic recur. During clinical studies approximately 10% of the horses required one or two additional treatments. The cause of the colic should be determined and treated with concomitant therapy. Cattle: The recommended dose for cattle is 1.1 to 2.2 mg/kg (0.5 to 1mg/lb; 1 to 2 mL per 100 lbs) given by slow intravenous administration either once a day as a single dose or divided into two doses administered at 12 hour intervals for up to 3 days. The total daily dose should not exceed 2.2 mg/kg (1.0 mg/lb) of bodyweight. Avoid rapid intravenous administration of the drug.

Contraindications

Horse: There are no known contraindications to this drug when used as directed. Intra-arterial injection should be avoided. Horses inadvertently injected intraarterially can show adverse reactions. Signs can be ataxia, incoordination, hyperventilation, hysteria and muscle weakness. Signs are transient and disappear without antidotal medication within a few minutes. Do not use in horses showing hypersensitivity to flunixin meglumine.

Cattle: There are no known contraindications to this drug in cattle when used as directed. Do not use in animals showing hypersensitivity to flunixin meglumine. Use judiciously when renal impairment or gastric ulceration are suspected.

RESIDUE WARNINGS

Cattle must not be slaughtered for hu-man consumption within 4 days of the last treatment. Milk that has been taken during treatment and for 36 hours after the last treatment must not be used for food. Not for use in dry dairy cows. A withdrawal period has not been established for this product in preruminating calves. Do not use in calves to be processed for yeal. Not for use in horses intended for food.

Precautions

As a class, cyclo-oxygenase inhibitory NSAIDs may be associated with gastrointestinal and renal toxicity. Sensitivity to drug-associated adverse effects varies with the individual patient. Patients at greatest risk for renal toxicity are those that are dehydrated, on concomitant diuretic therapy, or those with renal, cardiovascular, and/or hepatic dysfunction.

Since many NSAIDs possess the potential to induce gastrointestinal ulceration, concomitant use of Prevail™ with other anti-inflammatory drugs, such as other NSAIDs and corticosteroids, should be avoided or closely monitored.

Horse: The effects of Prevail™ on pregnancy has not been determined. Studies to determine activity of Prevail[™] when administered concomitantly with other drugs have not been conducted. Drug compatibility should be monitored closely in patients requiring adjunctive therapy.

Cattle: Do not use in bulls intended for breeding, as reproductive effects of Prevail[™] in these classes of cattle have not been investigated. NSAIDs are known to have potential effects on both parturition and the estrous cycle. There may be a delay in the onset of estrus if flunixin is administered during the prostaglandin phase of the estrous cycle. The effects of flunixin on imminent parturition have not been evaluated in a controlled study. NSAIDs are known to have the potential to delay parturition through a tocolytic effect. Do not exceed the recommended dose.

Safety Horse: A 3-fold intramuscular dose of 1.5mg/lb of bodyweight daily for 10 consecutive days was safe. No changes were observed in hematology, serum chemistry, or urinalysis values. Intravenous dosages of 0.5mg/lb daily for 15 days; 1.5mg/lb daily for 10 days; and 2.5mg/lb daily for 5 days produced no changes in blood or urine parameters. No injection site irritation was observed following intramuscular injection of the 0.5mg/lb recommended dose. Some irritation was observed following a 3-fold dose administered intramuscularly.

Cattle: No flunixin-related changes (adverse reactions) were noted in cattle administered at 1X (2.2 mg/kg; 1.0 mg/lb) dose for 9 days (three times the maximum clinical duration). Minimal toxicity manifested itself at moderately elevated doses (3X and 5X) when flunixin was administered daily for 9 days, with occasional findings of blood in the feces and/or urine. Discontinue use if hematuria or fecal blood are observed.

Adverse Reactions

In horses, isolated reports of local reactions following intramuscular injection, particularly in the neck, have been received. These include localized swelling, sweating, induration, and stiffness. In rare instances in horses, fatal or nonfatal clostridial infections or other infections, have been reported in association with intramuscular use of Prevail™. In horses and cattle, rare instances of anaphylactic-like reactions, some of which have been fatal, have been reported, primarily following intravenous use.

How Supplied

Prevail™, 50 mg/mL, is available in 100 mL and 250 mL multi-dose vials.

Store between 2° and 30°C (36° and 86°F).

Distributed by: MWI Veterinary Supply Meridian, ID 83680 (888) 694-8381

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