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120.00 mm

For the use only of a Registered Veterinary Practitioner or a Hospital or a Laboratory or a Farm.

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Ceftriaxone and Tazobactam for Injection

(Veterinary Dry Powder for Parenteral Administration)

Cefko™ -T सेफको-टी

COMPOSITION:

Each vial contains:

Sterile Ceftriaxone Sodium IP equivalent to Ceftriaxone Anhydrous.....500 mg

Sterile Tazobactam Sodium IP equivalent to Tazobactam Anhydrous.....62.50 mg

Class: Antibiotic / Cephalosporin (3rd Generation)

For IM/ IV Use Only.

ACTION:

Ceftriaxone is an antibiotic belongs to the third-generation cephalosporin group. Ceftriaxone has both gram-negative and gram-positive activities. Oral administration do not offer higher absorption. Tazobactam is useful in case of β -lactamase resistant bacterial infections.

INDICATIONS:

Cefko-T is indicated for the following infections:

- Bone and Joint Infections
- Bacterial Dermatological Infections
- Bacterial Septicemia
- Intra-abdominal infection
- Urinary Tract Infections
- Respiratory Tract Infections
- Meningitis
- Surgical prophylaxis

DOSAGE AND ADMINISTRATION:

Ceftriaxone & Tazobactam For Injection 562.50 mg can be given @15-25 mg/kg every 24 hours for 3 to 5 days or as directed by the Veterinarian.

Route: Intramuscular, Intravenous, Subcutaneous.

Directions for use:

Dissolve the content of the vial with 5ml Sterile water for Injection Ampoule provided with this pack.

Replace the cap & Shake well to form a uniform suspension. The reconstituted solution should be used immediately after preparation.

TARGET SPECIES: Dogs & Cats.

PHARMACODYNAMIC PROPERTIES:

Pharmacotherapeutic group: Antibacterials For Systemic Use.

ATC Code: Ceftriaxone (J01DD04) and Tazobactam (J01CG02)

PHARMACODYNAMICS:

Ceftriaxone:

Ceftriaxone is a third-generation cephalosporin derivative. Ceftriaxone, a bactericidal antimicrobial, inhibits bacterial cell wall synthesis of actively dividing cells by binding to one or more penicillin-binding proteins (PBPs). These proteins are associated with the bacterial cell membrane and probably serve in synthesis of peptidoglycan which is the major component of bacterial cell wall. The result is the formation of a defective cell wall that is osmotically unstable. Bacterial species have a unique set of PBPs. The affinity pattern of ceftriaxone for the PBPs for different bacterial species affects the drug's antimicrobial spectrum of activity. It is also felt that cephalosporins, as well as penicillins, may increase the breakdown of the cell wall of division. If unimpeded, this enzyme can destroy the integrity of the cell wall.

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Tazobactam:

Tazobactam is a penicillinate sulfone, structurally related to subactam. Being a beta-lactamase inhibitor, it is synergistic with many beta-lactamase labile drugs such as penicillins and cephalosporins. Tazobactam inhibits all beta-lactamases inhibited by clavulanic acid, but, in addition, it also has some activity against chromosomally-mediated induced (or derepressed) enzymes of *Morganella morganii*, *Citrobacter freundii*, *Enterobacter cloacae*, *Serratia marcescens* and *Pseudomonas aeruginosa*. Tazobactam also appears to be a weaker enzyme inducer than other beta-lactamase inhibitors.

Combination of Tazobactam and Ceftriaxone

The combination of tazobactam and ceftriaxone is active against all the organisms sensitive to ceftriaxone. In addition, it demonstrates synergistic activity (reduction in minimal inhibitory concentration [MIC] for the combination versus those of each component) in a variety of organisms.

PHARMACOKINETICS:

Ceftriaxone interferes with the biosynthesis of the peptidoglycan component of the bacterial cell wall by binding to and inactivating penicillin-binding proteins (PBPs). Tazobactam is a penicillanic acid sulfone derivative with β -lactamase inhibitory properties. It enhances the activity of β -lactam antibacterials against β -lactamase-producing bacteria. **Distribution** Ceftriaxone: 98% bound to plasma proteins; crosses the blood brain barrier. Tazobactam: About 30% bound to plasma proteins; widely distributed to tissues and body fluids

Excretion Ceftriaxone: Elimination half-life is about 8,7 hours; 33-67% removed as unchanged drug. Tazobactam: Removed mainly via kidneys with 80% of an administered dose as unchanged drug.

WARNING & PRECAUTION: This product should be given cautiously to penicillin-sensitive pets. Do not use in pets having a known history of allergic reaction towards ceftriaxone.

CONTRAINDICATIONS:

Ceftriaxone and Tazobactam for Injection is contraindicated in pets having hypersensitive to cephalosporin including Ceftriaxone and/or hypersensitive to β lactam class of antibiotics including Tazobactam or with any of its ingredients.

OVERDOSAGE: Overdose can be monitored and treated symptomatically.

UNDESIRABLE EFFECTS: Dogs/ cats hypersensitive to cephalosporin may show an adverse reaction on administration. Ceftriaxone crosses the placental barrier but no adverse effect to off-springs has been noted. Always follow the recommended dose. It has no reported withdrawal side effects.

SAFETY: AGE / PREGNANCY: Do not use in case of known hypersensitivity to ceftriaxone. Safe for breeding and lactating animal. No teratogenic effect was seen during studies in pregnant animals.

WITHDRAWAL PERIOD: Not applicable

STORAGE: Store below 25°C in a dry & dark place. Protect from light & moisture.

PRESENTATION: Combi pack of 562.50 mg with 5 ml Sterile Water for Injection with 5 ml disposable syringe & a 22G needle. Dry sterile powder filled in labeled 5 ml glass vial. This vial is packed in a Printed Primary Carton along with the Pack Insert.

**VETERINARY.
NOT FOR HUMAN USE.
FOR ANIMAL TREATMENT ONLY.**

Shake well before use.

KEEP OUT OF REACH OF CHILDREN & PETS, AWAY FROM FOOD.

Carefully read the accompanying instructions before use.

Manufactured By:
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