Web: www.taiclone.com
Tel: +886-2-2735-9682
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Marbofloxacin (hydrochloride)

Catalog No: tcsc1894

Available Sizes

Size: 100mg

Size: 500mg

Specifications

CAS No:
115551-26-3

Formula:
$C_{17}H_{20}ClFN_4O_4$

Pathway:
Anti-infection

Target:
Bacterial

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Observed Molecular Weight:
398.82

Product Description

Marbofloxacin hydrochloride is a potent antibiotic of which depends upon its inhibition of DNA-gyrase.

Target: DNA-gyrase

Marbofloxacin hydrochloride is a third-generation fluoroquinolone for veterinary use, the antimicrobial of which depends upon its inhibition of DNA-gyrase and topoisomerase IV. With a broad spectrum bactericidal activity and good efficacy, marbofloxacin

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hydrochloride is indicated for dermatological, respiratory and urinary tract infections due to both Gram-positive and Gram-negative bacteria and Mycoplasma [1].

Administration of Marbofloxacin hydrochloride at 6 mg/kg once daily for 7 days in a Staphylococcus aureus infection in tissue cages in ponies is not effective for the elimination of S. aureus infections from secluded sites [2]. The pharmacokinetic properties of marbofloxacin hydrochloride were investigated in 6 horses after i.v., subcutaneous and oral administration of a single dose of 2 mg/kg bwt and the minimal inhibitory concentrations (MIC) assessed for bacteria isolated from equine infectious pathologies. The clearance of marbofloxacin hydrochloride was mean +/- s.d. 0.25 +/- 0.05 l/kg/h and the terminal half-life 756 +/- 1.99 h. The marbofloxacin hydrochloride absolute bioavailabilities after subcutaneous and oral administration were 98 +/- 11% and 62 +/- 8%, respectively. Considering the breakpoint values of efficacy indices for fluoroquinolones, a marbofloxacin hydrochloride dosage regimen of 2 mg/kg bwt/24 h by i.v., subcutaneous or oral routes was more appropriate for enterobacteriaceae than for S. aureus [3].

Toxicity: cramps; vomiting; anorexia; soft stools; diarrhoea