Web: www.taiclone.com
Tel: +886-2-2735-9682
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# Enrofloxacin

## Catalog No: tcsc2699

### Available Sizes

**Size:** 5g

**Size:** 10g

### Specifications

**CAS No:**
93106-60-6

**Formula:**
$C_{19}H_{22}FN_3O_3$

**Pathway:**
Anti-infection

**Target:**
Bacterial

**Purity / Grade:**
>98%

**Solubility:**
DMSO : 9.5 mg/mL (26.43 mM; Need ultrasonic and warming)

**Alternative Names:**
BAY-Vp2674;PD160788

**Observed Molecular Weight:**
359.39

## Product Description

Enrofloxacin is an effective antibiotic with an $MIC_{90}$ of 0.312 μg/mL for *Mycoplasma bovis*.

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IC50 & Target: MIC90: 0.312 μg/mL ( *Mycoplasma bovis*)[1]

***In Vitro:*** *Mycoplasma bovis* is a worldwide pathogen, causative agent of pneumonia, mastitis, arthritis, and a variety of other symptoms in cattle. The antibiotic susceptibility profiles of the Hungarian strains are consistent within the tested group of fluoroquinolones. Three isolates (MYC44, MYC45 and MYC46) have high MIC values (≥10 μg/mL) to Enrofloxacin, while the rest of the strains are inhibited by Enrofloxacin with MICs ≤0.312 or 0.625 μg/mL[1].

***In Vivo:*** Mice (n=80) undergo transient middle cerebral artery occlusion (MCAo) with reperfusion after 60 minutes. After MCAo, animals are randomly assigned to receive either a daily preventive medication (n=26, Enrofloxacin) starting at the day of MCAo or a therapeutic medication (n=25; Enrofloxacin) after diagnosis of lung infection. Standard treatment started immediately after the appearance of clinical signs (general health score>6) usually between day 4 and 6 after stroke. Both, preventive and standard antibiotic treatment using Enrofloxacin improve survival in a similar way compared with placebo treatment[2].