

# Ceftriaxone

Catalog No: tcsc2948



## Available Sizes

**Size:** 100mg

**Size:** 500mg



## Specifications

**CAS No:**

73384-59-5

**Formula:**

$C_{18}H_{18}N_8O_7S_3$

**Pathway:**

Anti-infection

**Target:**

Bacterial

**Purity / Grade:**

>98%

**Solubility:**

10 mM in DMSO

**Observed Molecular Weight:**

554.58

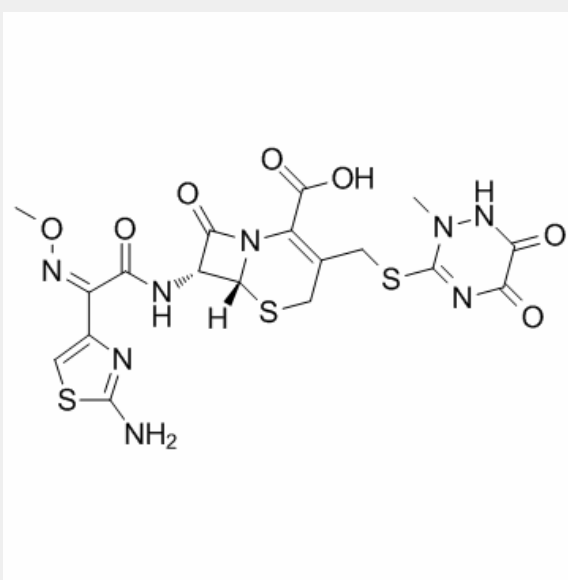
## Product Description

Ceftriaxone is an antibiotic useful for the treatment of a number of bacterial infections.

Target: Antibacterial

Ceftriaxone inhibits bacterial cell wall synthesis by means of binding to the penicillin-binding proteins (PBPs). Inhibition of PBPs would in turn inhibit the transpeptidation step in peptidoglycan synthesis which is required for bacterial cell walls. Like other

cephalosporins, ceftriaxone is bacteriocidal and exhibits time-dependent killing. Ceftriaxone, one of the beta-lactam antibiotics, is a stimulator of EAAT2 expression with neuroprotective effects in both in vitro and in vivo models based in part on its ability to inhibit neuronal cell death by glutamate excitotoxicity. Based on this consideration and its lack of toxicity, ceftriaxone has potential to manipulate glutamate transmission and ameliorate neurotoxicity [1].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!