

# KB-5246

Catalog No: tcsc0014788



## Available Sizes

**Size:** 1mg

**Size:** 5mg

**Size:** 10mg



## Specifications

**CAS No:**

119474-55-4

**Formula:**

$C_{18}H_{17}ClFN_3O_4S$

**Pathway:**

Anti-infection

**Target:**

Bacterial

**Purity / Grade:**

>98%

**Solubility:**

10 mM in DMSO

**Observed Molecular Weight:**

425.86

## Product Description

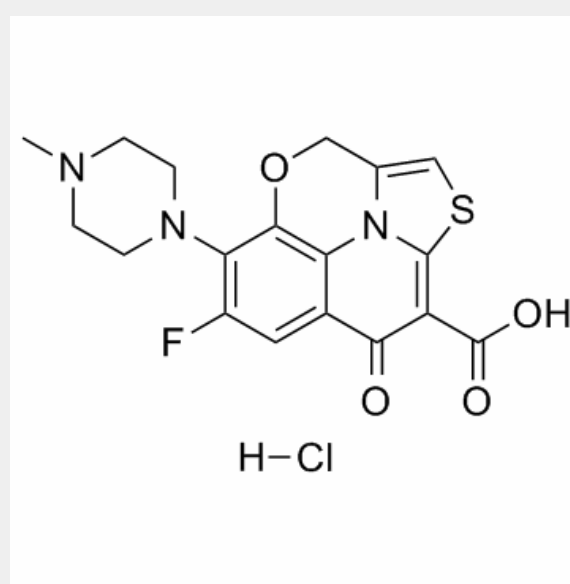
KB-5246 is a tetracyclic quinolone and displays antibacterial activities.

IC50 & Target: Bacterial<sup>[1]</sup>

***In Vitro:***

KB-5246 is a tetracyclic quinolone and displays antibacterial activities. The MICs for 90% of isolates tested (MIC90s) of KB-5246 against gram-positive microorganisms such as *Staphylococcus aureus*, including methicillin-resistant *S. aureus*, *Staphylococcus epidermidis*, *Streptococcus pneumoniae*, and *Streptococcus pyogenes*, are 0.39 µg/mL. KB5246 inhibits 90% of isolates of *Escherichia coli*, *Klebsiella pneumoniae*, *Klebsiella oxytoca* at a concentration of 0.10 µg/mL or less. When a concentration of KB-5246 at the MIC or higher is added, no regrowth after 24 h of incubation is observed<sup>[1]</sup>.

**In Vivo:** The 50% effective dose values of KB-5246 against *S. pneumoniae* 2132 infections are 50.5 mg/kg of body weight. The activities of KB-5246 against *S. aureus* Smith, *P. aeruginosa* GN11189, and *Serratia marcescens* GN7577 infections are comparable to those of ofloxacin and greater than those of norfloxacin<sup>[1]</sup>.



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