

# **KB-5246**

### Catalog No: tcsc0014788

Available Sizes

Size: 1mg

Size: 5mg

Size: 10mg

Specifications

#### CAS No:

119474-55-4

#### Formula:

 $\mathsf{C}_{18}\mathsf{H}_{17}\mathsf{CIFN}_3\mathsf{O}_4\mathsf{S}$ 

#### Pathway:

Anti-infection

#### **Target:**

Bacterial

#### Purity / Grade:

## 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>

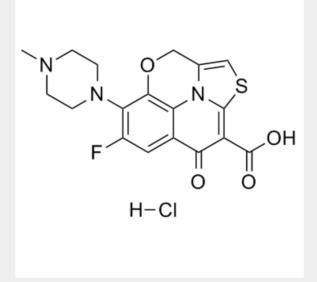
In Vitro:

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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>.



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