

# PNU-176798

Catalog No: tcsc0018458



## Available Sizes

**Size:** 1mg

**Size:** 5mg

**Size:** 10mg



## Specifications

**CAS No:**

428861-91-0

**Formula:**

$C_{16}H_{13}FN_4O_3S$

**Pathway:**

Anti-infection

**Target:**

Bacterial

**Purity / Grade:**

>98%

**Solubility:**

10 mM in DMSO

**Observed Molecular Weight:**

360.36

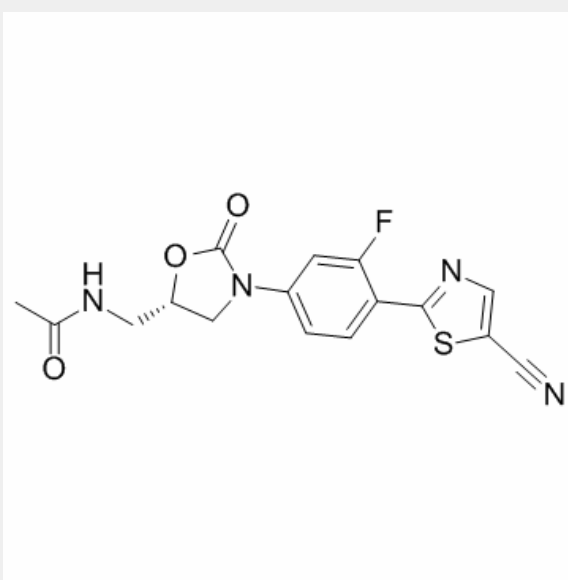
## Product Description

PNU-176798 is an antimicrobial agent, targeting protein synthesis in a wide spectrum of gram-positive and anaerobic bacteria.

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

***In Vitro:***

PNU-176798 is an antimicrobial agent, with a minimum inhibitory concentration (MIC) of 1.4  $\mu\text{M}$  for *E. coli*. PNU-176798 inhibits fMet-tRNA binding to the 70S ribosomes, with an  $\text{IC}_{50}$  of 32  $\mu\text{M}$ . PNU-176798 also blocks translation, 70S initiation with  $\text{IC}_{50}$ s of 0.53, and 32  $\mu\text{M}$ , respectively. PNU-176798 inhibits peptidyl transferase ( $\text{IC}_{50}$ , 40  $\mu\text{M}$ ), and the inhibition is more pronounced in the presence of elongation factor P (EF-P). PNU-176798 markedly inhibits the EF-G-mediated translocation of fMet-tRNA ( $\text{IC}_{50}$ , 8  $\mu\text{M}$ )<sup>[1]</sup>.



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