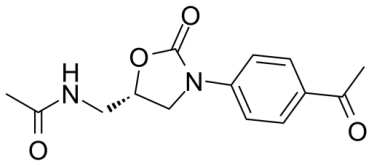
Data Sheet

Product Name:	Dup-721
Cat. No.:	CS-0226367
CAS No.:	104421-21-8
Molecular Formula:	$C_{14}H_{16}N_2O_4$
Molecular Weight:	276.29
Target:	Antibiotic; Bacterial
Pathway:	Anti-infection
Solubility:	DMSO : 100 mg/mL (361.94 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

DuP-721 is a broad spectrum and orally active **antibacterial agent** against a variety of clinically susceptible and resistant bacteria, especially M. tuberculosis[1]. **In Vitro:** DuP-721 (1.5-4 μg/ml) inhibits equally the strains of Mycobacterium tuberculosis susceptible and resistant to conventional antituberculosis drug. And it does not show cross resistance to any of the anti-tuberculosis drugs tested [1].

DuP-721 is inactive against M. avium and M. intracellulare at 250 μg/ml. It inhibits M. gordonoe and M. fortuitum at 3.9 μg/ml and M. kansassi and M. scrofulaceum at 1.95 μg/ml and 15.6 μg/ml, respectively[1].

In Vivo: DuP-721 (oral gavage; 50-160 mg/kg) is protective against M. tuberculosis infection in mice. DuP-721 protects 100% of the infected animals at 50 mg/kg p.o. dose when administered daily for 17 days, and the same effect is observed at 160 mg/kg dose when the drug is administered only on day 11 and 12 post infection[1].

References:

[1]. Affiliatio, et al. Antimycobacterial activities of oxazolidinones: a review. Infect Disord Drug Targets. 2006 Dec;6(4):343-54.

CAIndexNames:

Acetamide, N-[[(5S)-3-(4-acetylphenyl)-2-oxo-5-oxazolidinyl]methyl]-

SMILES:

O=C1N(C2=CC=C(C=C2)C(C)=O)C[C@@H](O1)CNC(C)=O

Tel: 610-426-3128 Fax: 888-484-5008 E-mail: sales@ChemScene.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA