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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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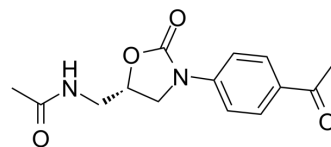
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Dup-721

Cat. No.:	HY-139618		
CAS No.:	104421-21-8		
Molecular Formula:	$C_{14}H_{16}N_2O_4$		
Molecular Weight:	276.29		
Target:	Bacterial; Antibiotic		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (361.94 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration Mass	1 mg	5 mg	10 mg
		1 mM	3.6194 mL	18.0969 mL	36.1939 mL
		5 mM	0.7239 mL	3.6194 mL	7.2388 mL
		10 mM	0.3619 mL	1.8097 mL	3.6194 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (9.05 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (9.05 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (9.05 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	DuP-721 is a broad spectrum and orally active antibacterial agent against a variety of clinically susceptible and resistant bacteria, especially <i>M. tuberculosis</i> ^[1] .
In Vitro	DuP-721 (1.5-4 µg/ml) inhibits equally the strains of <i>Mycobacterium tuberculosis</i> 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 <i>M. avium</i> and <i>M. intracellulare</i> at 250 µg/ml. It inhibits <i>M. gordoneae</i> and <i>M. fortuitum</i> at 3.9 µg/ml and <i>M. kansasii</i> and <i>M. scrofulaceum</i> at 1.95 µg/ml and 15.6 µg/ml, respectively^[1].

	MCE has not independently confirmed the accuracy of these methods. They are for reference only.
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]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

Caution: Product has not been fully validated for medical applications. For research use only.

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