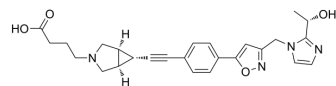


TP0586532

Cat. No.:	HY-131981		
CAS No.:	2427584-96-9		
Molecular Formula:	C ₂₆ H ₂₈ N ₄ O ₄		
Molecular Weight:	460.52		
Target:	Bacterial		
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 : 50 mg/mL (108.57 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
	Preparing Stock Solutions	1 mM	2.1715 mL	10.8573 mL
		5 mM	2.1715 mL	4.3429 mL
		10 mM	0.2171 mL	1.0857 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 (5.43 mM); Clear solution			
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (4.52 mM); Clear solution			
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.52 mM); Clear solution			

BIOLOGICAL ACTIVITY

Description	TP0586532 is a non-hydroxamate LpxC inhibitor (IC ₅₀ =0.101 μM). TP0586532 as a compound with a low cardiovascular risk that is effective against <i>K. pneumoniae</i> , including resistant strains ^[1] . TP0586532 is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAC) with molecules containing Azide groups.
IC ₅₀ & Target	IC ₅₀ : 0.101 μM (non-hydroxamate LpxC) ^[1]

In Vitro

TP0586532 as a compound with a low cardiovascular risk that is effective against *K. pneumoniae*, including resistant strains [1].

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

REFERENCES

[1]. Ushiyama F, et al. Lead optimization of 2-hydroxymethyl imidazoles as non-hydroxamate LpxC inhibitors: Discovery of TP0586532. *Bioorg Med Chem.* 2021;30:115964.

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

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