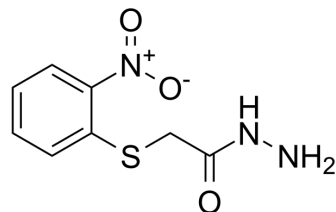


MAC13772

Cat. No.:	HY-116872		
CAS No.:	4871-40-3		
Molecular Formula:	C ₈ H ₉ N ₃ O ₃ S		
Molecular Weight:	227.24		
Target:	Bacterial		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 17.86 mg/mL (78.60 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	4.4006 mL	22.0032 mL	44.0063 mL
	5 mM	0.8801 mL	4.4006 mL	8.8013 mL
	10 mM	0.4401 mL	2.2003 mL	4.4006 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.79 mg/mL (7.88 mM); Clear solution			

BIOLOGICAL ACTIVITY

Description	MAC13772 is a potent inhibitor of the enzyme BioA (IC ₅₀ =250 nM), the antepenultimate step in biotin biosynthesis. MAC13772 is a novel antibacterial compound ^[1] .
IC ₅₀ & Target	IC ₅₀ : 250 nM (BioA) ^[1]

REFERENCES

[1]. Zlitni S, et al. Metabolic suppression identifies new antibacterial inhibitors under nutrient limitation. Nat Chem Biol. 2013 Dec;9(12):796-804.

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

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