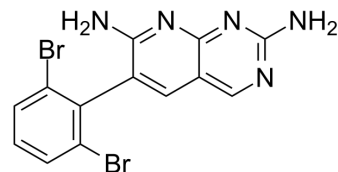


Acetyl-CoA Carboxylase-IN-1

Cat. No.:	HY-152117		
CAS No.:	179343-23-8		
Molecular Formula:	C ₁₃ H ₉ Br ₂ N ₅		
Molecular Weight:	395.05		
Target:	Acetyl-CoA Carboxylase; Bacterial		
Pathway:	Metabolic Enzyme/Protease; 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 : 33.33 mg/mL (84.37 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.5313 mL	12.6566 mL	25.3133 mL
	5 mM	0.5063 mL	2.5313 mL	5.0627 mL
	10 mM	0.2531 mL	1.2657 mL	2.5313 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Acetyl-CoA Carboxylase-IN-1 is a potent acetyl-CoA carboxylase (ACC) inhibitor with an IC₅₀ value of 85 nM. Acetyl-CoA Carboxylase-IN-1 has antibacterial activity^[1].

In Vitro

Acetyl-CoA Carboxylase-IN-1 (compound 1; 0.012-25 μM; E. coli) has antibacterial activity with MIC values of >25, 3.13, 25, 0.39, 1.56, 0.1 μM for WT, WT+ PMBN, ΔacrAB, ΔacrAB+PMBN, ΔtolC, and ΔtolC+ PMBN, respectively^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Cifone MT, et, al. Heterobivalent Inhibitors of Acetyl-CoA Carboxylase: Drug Target Residence Time and Time-Dependent Antibacterial Activity. J Med Chem. 2022 Dec 22;65(24):16510-16525.

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

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