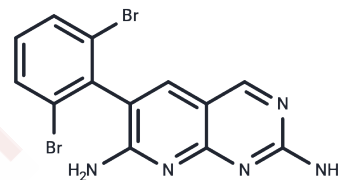


Acetyl-CoA Carboxylase-IN-1

Chemical Properties

CAS No. :	179343-23-8
Formula:	C ₁₃ H ₉ Br ₂ N ₅
Molecular Weight:	395.05
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Acetyl-CoA Carboxylase-IN-1 (ACC-IN-1) is an efficient inhibitor of acetyl-CoA carboxylase (ACC), with antibacterial activity, and can be applied in the study of metabolic diseases.
Targets(IC50)	Acetyl-CoA Carboxylase, Antibacterial
In vitro	Acetyl-CoA Carboxylase-IN-1 (0.012-25 μM) exhibits antibacterial activity in Escherichia coli with MIC values of >25, 3.13, 25, 0.39, 1.56, and 0.1 μM for WT, WT+ PMBN, ΔacrAB, ΔacrAB+PMBN, ΔtolC, and ΔtolC+ PMBN, respectively.[1]

Solubility Information

Solubility	DMSO: 30 mg/mL (75.94 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0506 mL	0.2531 mL	0.5063 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481