

CBM-301940

Chemical Properties

CAS No. : 902146-11-6

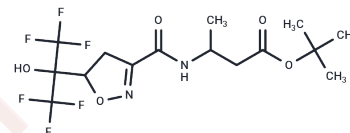
Formula: C₁₅H₂₀F₆N₂O₅

Molecular Weight: 422.32

Store at low temperature

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	CBM-301940 (compound 5) is a potent and orally active MCD (Malonyl-CoA Decarboxylase) inhibitor with IC ₅₀ =23 nM that improves cardiac efficiency and function with cardioprotective properties in a rat cardiac ischemia/reperfusion model.
Targets(IC ₅₀)	Others
In vitro	CBM-301940 (compound 5) is a potent malonyl-CoA decarboxylase (MCD) inhibitor with oral bioactivity, exhibiting an IC ₅₀ of 23 nM[1].

Solubility Information

Solubility	DMSO: 100 mg/mL (236.79 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3679 mL	11.8394 mL	23.6787 mL
5 mM	0.4736 mL	2.3679 mL	4.7357 mL
10 mM	0.2368 mL	1.1839 mL	2.3679 mL
50 mM	0.0474 mL	0.2368 mL	0.4736 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

Cheng JF, et al. Discovery of potent and orally available malonyl-CoA decarboxylase inhibitors as cardioprotective agents. J Med Chem. 2006 Jul 13;49(14):4055-8.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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