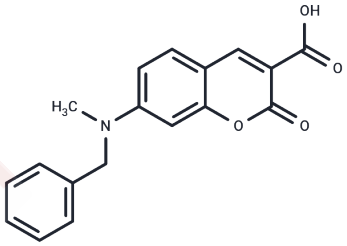
Data Sheet (Cat.No.T1768)

TargetMol

7ACC2

Chemical Properties



CAS No. : 1472624-85-3

Formula: C18H15NO4

Molecular Weight: 309.32

Storage: Keep away from direct sunlight
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	7ACC2 is a new potent MCT inhibitor with IC50 of 11 nM for [14C]-lactate influx; new antitumor treatment targeting lactate transport in Y cells.
Targets(IC50)	Mitochondrial Metabolism,Monocarboxylate transporter

Solubility Information

Solubility	DMSO: 35.71 mg/mL (115.45 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% (20% SBE-β-CD in Saline): 3.57 mg/mL (11.54 mM),Suspension. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: < 3.57 mg/mL (11.54 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+90% Saline: < 3.57 mg/mL (11.54 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2329 mL	16.1645 mL	32.329 mL
5 mM	0.6466 mL	3.2329 mL	6.4658 mL
10 mM	0.3233 mL	1.6164 mL	3.2329 mL
50 mM	0.0647 mL	0.3233 mL	0.6466 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

Draoui N, et al. Bioorg Med Chem. 2013 Nov 15;21(22):7107-17.