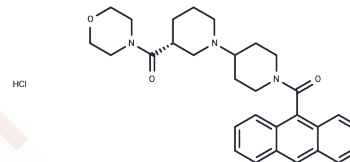


CP-640186 hydrochloride

Chemical Properties

CAS No. :	591778-70-0
Formula:	C ₃₀ H ₃₆ ClN ₃ O ₃
Molecular Weight:	522.08
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	CP-640186 hydrochloride (CP 640186 HCl) is an isozyme-nonspecific acetyl-CoA carboxylase (ACC) inhibitor, including rat liver ACC1 (IC ₅₀ : 53 nM) and rat skeletal muscle ACC2 (IC ₅₀ : 61 nM); with higher metabolic stability than CP-610431.
Targets(IC ₅₀)	Acetyl-CoA Carboxylase
Kinase Assay	Aconitase activities are determined by homogenization of mouse brain tissues on ice at 10% w/v in CellLytic MT Mammalian Tissue Lysis/Extraction buffer, followed by centrifugation at 800×g for 10 min at 4°C. Tissue lysates (50 μL) are then added to 200 μL of substrate mix (50 mM Tris/HCl pH 7.4, 0.4 mM NADP, 5 mM Na citrate, 0.6 mM MgCl ₂ , 0.1% (v/v) Triton X-100 and 1 U isocitrate dehydrogenase) and the reactions are incubated at 37°C for 15 min, followed by spectrophotometric absorbance measurements every minute for 15 min at 340 nm 37°C to determine the reaction slope. Aconitase activities of mouse brain tissues are then normalized to citrate synthase activities, which are determined using a citrate synthase assay kit.

Solubility Information

Solubility	DMSO: 50 mg/mL (95.77 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (3.83 mM), Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9154 mL	9.5771 mL	19.1542 mL
5 mM	0.3831 mL	1.9154 mL	3.8308 mL
10 mM	0.1915 mL	0.9577 mL	1.9154 mL
50 mM	0.0383 mL	0.1915 mL	0.3831 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

Harwood HJ Jr, et al. J Biol Chem. 2003 Sep 26;278(39):37099-111. ;
Yamashita T, et al. Bioorg Med Chem Lett. 2011 Nov 1;21(21):6314-8.;

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