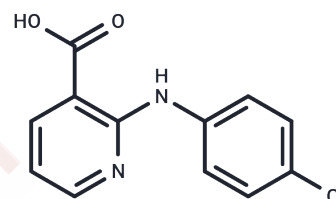


DHODH-IN-17

Chemical Properties

CAS No. :	16344-26-6
Formula:	C ₁₂ H ₉ ClN ₂ O ₂
Molecular Weight:	248.67
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	DHODH-IN-17 is a human DHODH inhibitor with an IC ₅₀ of 0.40 μM. DHODH-IN-17 is a 2-anilino nicotinic acid that can be used in the study of acute myeloid leukemia (AML).
Targets(IC ₅₀)	Dehydrogenase
In vitro	DHODH-IN-17 inhibits human DHODH with an IC ₅₀ value of 0.40 μM.[1]

Solubility Information

Solubility	DMSO: 60 mg/mL (241.28 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: 1 mg/mL (4.02 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	4.0214 mL	20.107 mL	40.2139 mL
5 mM	0.8043 mL	4.0214 mL	8.0428 mL
10 mM	0.4021 mL	2.0107 mL	4.0214 mL
50 mM	0.0804 mL	0.4021 mL	0.8043 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

Lewis TA, et al. Development of ML390: A Human DHODH Inhibitor That Induces Differentiation in Acute Myeloid Leukemia. ACS Med Chem Lett. 2016 Sep 28;7(12):1112-1117.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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