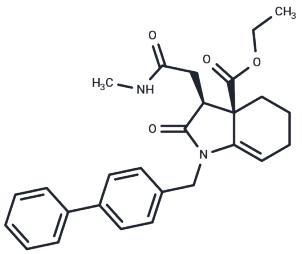
Data Sheet (Cat.No.T11337)

TargetMol

Fumarate hydratase-IN-1

Chemical Properties



CAS No. : 1644060-37-6

Formula: C27H30N2O4

Molecular Weight: 446.54

Storage: Store at low temperature
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	Fumarate hydratase-IN-1 is a cell-permeable fumarate hydratase inhibitor with antiproliferative activity and can be used to study cellular activity.
Targets(IC50)	Mitochondrial Metabolism
In vitro	Fumarate hydratase-IN-1 exhibits high sensitivity against cancer cell lines such as SW620, ACHN, HCT-116, inhibiting their proliferation with an average IC50 value of 2.2 μM[1].

Solubility Information

Solubility	DMSO: 30 mg/mL (67.18 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 (4.48 mM),Sonication is recommended. *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	2.2394 mL	11.1972 mL	22.3944 mL
5 mM	0.4479 mL	2.2394 mL	4.4789 mL
10 mM	0.2239 mL	1.1197 mL	2.2394 mL
50 mM	0.0448 mL	0.2239 mL	0.4479 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

Takeuchi T et al. Identification of Fumarate Hydratase Inhibitors with Nutrient-Dependent Cytotoxicity. J Am Chem Soc, 2015 Jan 21, 137(2): 564-567.