

BAY-252

Chemical Properties

CAS No. : 2639638-67-6

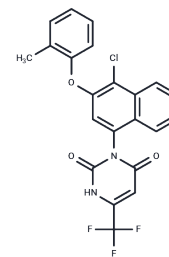
Formula: C₂₂H₁₄ClF₃N₂O₃

Molecular Weight: 446.81

Store at low temperature, Keep away from moisture

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	BAY-252 is a potent inhibitor of branched-chain amino acid transaminases 1 (BCAT1) and BCAT2, with IC ₅₀ of 2 μM for both enzymes. In addition to its inhibitory properties, BAY-252 serves as a chemical probe in cancer research, aiding in the investigation of metabolic pathways involving branched-chain amino acids.
Targets(IC ₅₀)	Others
In vitro	BAY-252 inhibits the proliferation of MDA-MB-231 cells with an IC ₅₀ value of 2 μM [1].

Solubility Information

Solubility	DMSO: 100 mg/mL (223.81 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: 4 mg/mL (8.95 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	2.2381 mL	11.1904 mL	22.3809 mL
5 mM	0.4476 mL	2.2381 mL	4.4762 mL
10 mM	0.2238 mL	1.119 mL	2.2381 mL
50 mM	0.0448 mL	0.2238 mL	0.4476 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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