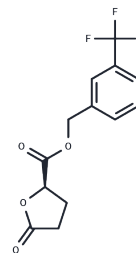


TFMB-(R)-2-HG

Chemical Properties

CAS No. : 1445700-01-5
 Formula: C₁₃H₁₁F₃O₄
 Molecular Weight: 288.22
 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	TFMB-(R)-2-HG is a cell membrane-permeable (R)-2-HG, an oncogenic factor in acute myeloid leukemia. It impairs SCF ER-Hoxb8 cell differentiation in response to estrogen withdrawal.
Targets(IC50)	Estrogen Receptor/ERR,Histone Demethylase,Others

Solubility Information

Solubility	DMSO: 255 mg/mL (884.74 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 (6.94 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	3.4696 mL	17.3479 mL	34.6957 mL
5 mM	0.6939 mL	3.4696 mL	6.9391 mL
10 mM	0.347 mL	1.7348 mL	3.4696 mL
50 mM	0.0694 mL	0.347 mL	0.6939 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

Losman JA, et al. (R)-2-hydroxyglutarate is sufficient to promote leukemogenesis and its effects are reversible. Science. 2013 Mar 29;339(6127):1621-5.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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