

GSK864

Chemical Properties

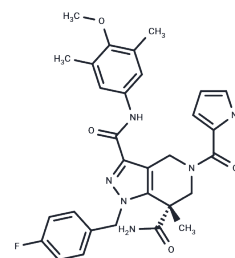
CAS No. : 1816331-66-4

Formula: C₃₀H₃₁FN₆O₄

Molecular Weight: 558.6

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	GSK864 is an IDH1 mutant inhibitor that inhibits IDH1 mutants R132C, R132H, and R132G, and is used in the study of cardiovascular and oncology diseases.
Targets(IC50)	Dehydrogenase, Isocitrate Dehydrogenase (IDH)
In vitro	GSK864 inhibits 2-HG production in R132C IDH1 mutant HT1080 fibrosarcoma cells (EC50: 320 nM by LCMS/MS analysis) [1].
In vivo	In mice with R132C or R132H IDH1 mutant transplants treated with GSK864 (IP), the number of huCD45+ CD38+ cells showed a slight increase [1].

Solubility Information

Solubility	DMSO: 100 mg/mL (179.02 mM), Sonication is recommended. H ₂ O: < 1 mg/mL (Insoluble) (< 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 (7.16 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	1.7902 mL	8.9509 mL	17.9019 mL
5 mM	0.358 mL	1.7902 mL	3.5804 mL
10 mM	0.179 mL	0.8951 mL	1.7902 mL
50 mM	0.0358 mL	0.179 mL	0.358 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

Okoye-Okafor UC, et al. New IDH1 mutant inhibitors for treatment of acute myeloid leukemia. Nat Chem Biol. 2015 Nov;11(11):878-86.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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

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