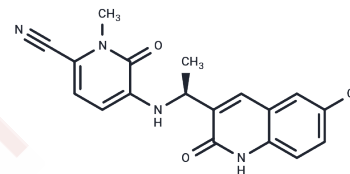


Olutasidenib

Chemical Properties

CAS No. :	1887014-12-1
Formula:	C ₁₈ H ₁₅ ClN ₄ O ₂
Molecular Weight:	354.79
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	Olutasidenib (FT-2102) is under the study in the treatment of acute myeloid leukemia (AML) or myelodysplastic syndrome (MDS). Olutasidenib is a highly effective, brain penetrant, and selective inhibitor of the mutant Isocitrate dehydrogenase 1 (IDH1) (IC ₅₀ : 21.2 nM and 114 nM for IDH1- R132H and IDH1- R132C, respectively).
Targets(IC ₅₀)	Dehydrogenase, Isocitrate Dehydrogenase (IDH)
In vitro	Olutasidenib is highly selective for IDH1 isoforms, showing no appreciable inhibition against wild-type IDH1 (> 20 μM) and IDH2 mutants (R172K and R140Q: both > 20 μM). Olutasidenib effectively suppresses 2-HG production by multiple IDH1-R132 mutants (R132H, R132C, R132G, R132L), displaying Olutasidenib (FT-2102) could be efficacious against most IDH1-R132 mutant-expressing tumors [2].
In vivo	In HCT116-IDH1-R132H/+ xenograft bearing female BALB/c Nude mice, Olutasidenib (three oral doses (12.5, 25, and 50 mg/kg) in 12-hour intervals) shows effective anti-tumor activity [2].

Solubility Information

Solubility	DMSO: 122 mg/mL (343.87 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 (11.27 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	2.8186 mL	14.0928 mL	28.1857 mL
5 mM	0.5637 mL	2.8186 mL	5.6371 mL
10 mM	0.2819 mL	1.4093 mL	2.8186 mL
50 mM	0.0564 mL	0.2819 mL	0.5637 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

JM Watts, et al. A phase 1 dose escalation study of the IDH1m inhibitor, FT-2102, in patients with acute myeloid leukemia (AML) or myelodysplastic syndrome (MDS).

Justin A. Caravella, et al. Structure-based design and identification of FT-2102 (olutasidenib), a potent mutant-selective IDH1 inhibitor. J Med Chem. 2020.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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