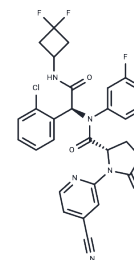


Ivosidenib

Chemical Properties

CAS No. :	1448347-49-6
Formula:	C ₂₈ H ₂₂ ClF ₃ N ₆ O ₃
Molecular Weight:	582.96
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	Ivosidenib (AG-120) is an orally available inhibitor of isocitrate dehydrogenase type 1 (IDH1) with potential antineoplastic activity. It specifically inhibits a mutated form of IDH1 in the cytoplasm, preventing the formation of the oncometabolite 2-hydroxyglutarate (2-HG), which may induce cellular differentiation and inhibit cellular proliferation in IDH1-expressing tumor cells.
Targets(IC50)	Dehydrogenase, Isocitrate Dehydrogenase (IDH)
In vitro	TF-1 cells or primary human AML patient samples expressing mutant IDH1 are treated with AG-120. Treatment with AG-120 decreases intracellular 2-HG levels, inhibits growth factor independent proliferation and restores erythropoietin (EPO)-induced differentiation in TF-1 IDH1-R132H cells. Similarly, pharmacological inhibition of mutant IDH1 enzyme with AG-120 in primary human blast cells cultured ex vivo provides an effective way to lower intracellular 2-HG levels and induces myeloid differentiation[1].
Cell Research	TF-1 cells or primary human AML patient samples expressing mutant IDH1 are treated with AG-120. (Only for Reference)

Solubility Information

Solubility	Ethanol: 100 mg/mL (171.54 mM), Sonication is recommended. H ₂ O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 237 mg/mL (406.55 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	20% Cremophor EL: 5.5 mg/mL (9.43 mM) <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	1.7154 mL	8.5769 mL	17.1538 mL
5 mM	0.3431 mL	1.7154 mL	3.4308 mL
10 mM	0.1715 mL	0.8577 mL	1.7154 mL
50 mM	0.0343 mL	0.1715 mL	0.3431 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

Erica Hansen, et al. Blood. 2104, 124:3734.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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