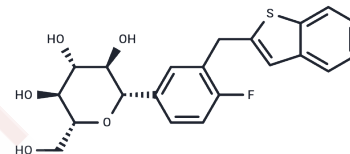


Ipragliflozin

Chemical Properties

CAS No. :	761423-87-4
Formula:	C ₂₁ H ₂₁ F ₀ S ₅
Molecular Weight:	404.45
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	Ipragliflozin (ASP1941) is under investigation in Type 2 Diabetes and Diabetes Mellitus, Type 2.
Targets(IC50)	SGLT
Kinase Assay	Inhibition of TNF- α synthesis: TNF- α inhibitory activity is measured in lipopolysaccharide (LPS) stimulated PBMC. Pomalidomide is added to human PBMCs 1 hour prior to the addition of LPS (1 μ g/mL) and incubation continued for an additional 18-20 hours. Supernatants are then harvested, and the concentration of TNF- α in the supernatants is determined by ELISA. The concentration of Pomalidomide that inhibits TNF- production by 50% (IC50) is calculated by nonlinear regression analysis. The human whole blood TNF- inhibition assay is run in a similar fashion to the PBMC assay except that heparinized fresh human whole blood is plated directly into microtiter plates.

Solubility Information

Solubility	DMSO: 247.5 mg/mL (611.94 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 (4.94 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	2.4725 mL	12.3625 mL	24.7249 mL
5 mM	0.4945 mL	2.4725 mL	4.945 mL
10 mM	0.2472 mL	1.2362 mL	2.4725 mL
50 mM	0.0494 mL	0.2472 mL	0.4945 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

Imamura M, et al. Bioorg Med Chem. 2012 May 15;20(10):3263-79.

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