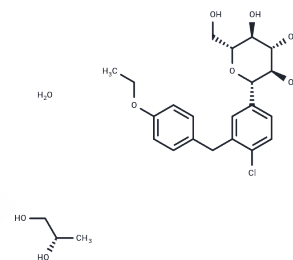


Dapagliflozin ((2S)-1,2-propanediol, hydrate)

Chemical Properties

CAS No. :	960404-48-2
Formula:	C ₂₄ H ₃₅ ClO ₉
Molecular Weight:	502.98
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	Dapagliflozin ((2S)-1,2-propanediol, hydrate) (BMS-512148 (2S)-1,2-propanediol, hydrate) is a selective, orally active inhibitor of the renal sodium-glucose co-transporter type 2 (SGLT2), in development for treating type 2 diabetes mellitus (T2DM). It inhibits SGLT2, responsible for at least 90% of glucose reabsorption in the kidney.
Targets(IC50)	SGLT
In vitro	Dapagliflozin (2S)-1,2-propanediol, hydrate is the S-enantiomer of Dapagliflozin 1,2-propanediol, hydrate. Dapagliflozin inhibits sodium/glucose cotransporter 2 (SGLT2), which results in excretion of glucose into the urine.

Solubility Information

Solubility	DMSO: 257.5 mg/mL (511.95 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 10 mg/mL (19.88 mM),Solution. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (3.98 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	1.9882 mL	9.9408 mL	19.8815 mL
5 mM	0.3976 mL	1.9882 mL	3.9763 mL
10 mM	0.1988 mL	0.9941 mL	1.9882 mL
50 mM	0.0398 mL	0.1988 mL	0.3976 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

- Plosker GL.etal.Dapagliflozin: a review of its use in type 2 diabetes mellitus.Drugs. 2012 Dec 3;72(17):2289-312.
Vivian EM.etal.Dapagliflozin: a new sodium-glucose cotransporter 2 inhibitor for treatment of type 2 diabetes.Am J Health Syst Pharm. 2015 Mar 1;72(5):361-72.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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