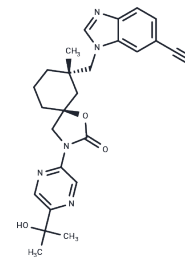


GSK2798745

Chemical Properties

CAS No. :	1419609-94-1
Formula:	C ₂₅ H ₂₈ N ₆ O ₃
Molecular Weight:	460.53
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	GSK2798745 is an orally active transient receptor potential vanilloid 4 (TRPV4) ion channel blocker (IC ₅₀ s: 1.8 and 1.6 nM for hTRPV4 and rTRPV4). It is used in research for the treatment of pulmonary edema associated with congestive heart failure.
Targets(IC ₅₀)	TRP/TRPV Channel

Solubility Information

Solubility	DMSO: 250 mg/mL (542.85 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: 3.3 mg/mL (7.17 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	2.1714 mL	10.8571 mL	21.7141 mL
5 mM	0.4343 mL	2.1714 mL	4.3428 mL
10 mM	0.2171 mL	1.0857 mL	2.1714 mL
50 mM	0.0434 mL	0.2171 mL	0.4343 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

Goyal N, et al. Clinical Pharmacokinetics, Safety, and Tolerability of a Novel, First-in-Class TRPV4 Ion Channel Inhibitor, GSK2798745, in Healthy and Heart Failure Subjects. *Am J Cardiovasc Drugs*. 2019 Jun;19(3):335-342.

Brooks CA, et al. Discovery of GSK2798745: A Clinical Candidate for Inhibition of Transient Receptor Potential Vanilloid 4 (TRPV4). *ACS Med Chem Lett*. 2019 Jul 15;10(8):1228-1233.

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