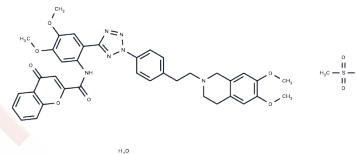


HM-30181 mesylate monohydrate

Chemical Properties

CAS No. :	2097125-58-9
Formula:	C ₃₉ H ₄₂ N ₆ O ₁₁ S
Molecular Weight:	802.85
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	HM-30181 mesylate monohydrate is an oral P-glycoprotein (P-gp) inhibitor, used to enhance the oral bioavailability of P-gp substrate drugs.
Targets(IC50)	P-gp

Solubility Information

Solubility	DMSO: 55 mg/mL (68.51 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.2456 mL	6.2278 mL	12.4556 mL
5 mM	0.2491 mL	1.2456 mL	2.4911 mL
10 mM	0.1246 mL	0.6228 mL	1.2456 mL
50 mM	0.0249 mL	0.1246 mL	0.2491 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

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Bauer F, Wanek T, Mairinger S, Stanek J, Sauberer M, Kuntner C, Parveen Z, Chiba P, Muller M, Langer O, Erker T. Interaction of HM30181 with P-glycoprotein at the murine blood-brain barrier assessed with positron emission tomography. *Eur J Pharmacol*. 2012 Dec 5;696(1-3):18-27.

Kim TE, Gu N, Yoon SH, Cho JY, Park KM, Shin SG, Jang IJ, Yu KS. Tolerability and pharmacokinetics of a new P-glycoprotein inhibitor, HM30181, in healthy Korean male volunteers: single- and multiple-dose randomized, placebo-controlled studies. *Clin Ther*. 2012 Feb;34(2):482-94.

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