

TM-N1324

Chemical Properties

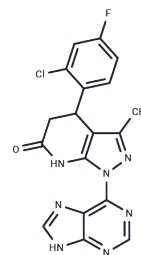
CAS No. : 1144477-35-9

Formula: C₁₈H₁₃ClFN₇O

Molecular Weight: 397.79

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	TM-N1324 is a GPR39 agonist. TM-N1324 activates human GPR39 with high efficacy and potencies of 280 nM and 9 nM in the absence and presence of Zn ²⁺ , respectively. TM-N1324 has similar potencies to murine GPR39 with EC ₅₀ s of 180 nM and 5 nM, respectively.
Targets(IC ₅₀)	GHSR
In vitro	Measurements of somatostatin confirms that the GPR39 agonist TM-N1324 increases somatostatin release by 53%. TM-N1324 is found to have promising in vitro ADME properties. TM-N1324 has reasonably good aqueous solubility (65 µM at pH 7.0)[1].

Solubility Information

Solubility	DMSO: 10 mg/mL (25.14 mM), Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 1 mg/mL (2.51 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	2.5139 mL	12.5694 mL	25.1389 mL
5 mM	0.5028 mL	2.5139 mL	5.0278 mL
10 mM	0.2514 mL	1.2569 mL	2.5139 mL
50 mM	0.0503 mL	0.2514 mL	0.5028 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

Frimurer TM, et al. Model-Based Discovery of Synthetic Agonists for the Zn²⁺-Sensing G-Protein-Coupled Receptor 39 (GPR39) Reveals Novel Biological Functions. J Med Chem. 2017 Feb 9;60(3):886-898.

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