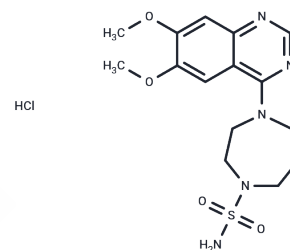


Enpp-1-IN-14

Chemical Properties

CAS No. :	2687222-59-7
Formula:	C ₁₅ H ₂₂ ClN ₅ O ₄ S
Molecular Weight:	403.88
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	Enpp-1-IN-14 is a potent inhibitor of Ectonucleotide Pyrophosphatase/Phosphodiesterase-1 (ENPP1) with an IC ₅₀ value of 32.38 nM for recombinant human ENPP-1. Enpp-1-IN-14 has anti-tumor activity.
Targets(IC ₅₀)	PDE
In vivo	Enpp-1-IN-14 (compound 015) (50 mg/kg; IP; BID, for 31 days) significantly inhibits tumor growth in female C57BL/6 mice (4-6 weeks old) implanted subcutaneously with 2×10 ⁵ MC38 cells.

Solubility Information

Solubility	DMSO: 5.3 mg/mL (13.12 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 0.54 mg/mL (1.34 mM), Solution. <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	2.476 mL	12.3799 mL	24.7598 mL
5 mM	0.4952 mL	2.476 mL	4.952 mL
10 mM	0.2476 mL	1.238 mL	2.476 mL
50 mM	0.0495 mL	0.2476 mL	0.4952 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

Srinivas Rao Kasibhatla, et al. Inhibitors of ectonucleotide pyrophosphatase/phosphodiesterase 1 (enpp1) and methods of use thereof. WO2021158829A1.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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