

Enpp-1-IN-12

Chemical Properties

CAS No. :

Formula: C17H19N5O3S

Molecular Weight: 373.43

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-12 (compound 43), an orally active and potent inhibitor of ecto-nucleotide pyrophosphatase/phosphodiesterase 1 (ENPP1) with a K_i of 41 nM, exhibits anti-tumor activity [1].
Targets(IC50)	Others,PDE
In vitro	Enpp-1-IN-12 (5 μ M) exhibits a half-life of over 120 minutes and an intrinsic clearance rate below 11.55 μ L/min/million cells in human hepatocytes, compared to a half-life of 61.88 minutes and a clearance rate of 22.4 μ L/min/million cells in mouse hepatocytes [1].
In vivo	Enpp-1-IN-12, at a dosage of 100 mg/kg administered orally, effectively inhibits tumor growth in a syngeneic murine model for lung cancer derived from LLC1 cells. At a lower dose of 10 mg/kg, the compound demonstrates moderate oral bioavailability (F=45.1%) with a half-life of 1.04 hours and a peak concentration (C max) of 303.10 ng/mL in healthy female BALB/c mice. When administered intravenously at 1 mg/kg, Enpp-1-IN-12 shows a half-life of 0.76 hours, a peak concentration of 308.64 ng/mL, and a clearance rate of 73.22 mL/min/kg in the same mouse model.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6779 mL	13.3894 mL	26.7788 mL
5 mM	0.5356 mL	2.6779 mL	5.3558 mL
10 mM	0.2678 mL	1.3389 mL	2.6779 mL
50 mM	0.0536 mL	0.2678 mL	0.5356 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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