

L-690330 hydrate

Chemical Properties

CAS No. :

Formula: C₈H₁₄O₉P₂

Molecular Weight: 316.14

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	L-690330 hydrate is a competitive inositol monophosphatase (IMPase) inhibitor with Ki values for human and bovine frontal cortex IMPase at 0.30 and 0.42 μ M, respectively, and Ki values of 0.27 and 0.19 μ M for recombinant human and bovine IMPase, respectively [1].
Targets(IC50)	Others,Phosphatase
In vitro	L-690330 hydrate, at a concentration of 50 μ M and applied for 1 hour, stimulates P-AMPK and autophagy, enhancing the expression of LC3-I/II and p-AMPK in HEK293 cells [2].
In vivo	Administering L-690330 hydrate via intracerebroventricular injection (0.1 μ mol) to eight-week-old male ICR mice did not impact their motor activity and coordination, as observed in the beam walking test. However, there was a noted reduction in the time spent in light during the dark/light test [3]. This dosage and method of administration did not adversely affect the well-being of the mice.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1632 mL	15.8158 mL	31.6316 mL
5 mM	0.6326 mL	3.1632 mL	6.3263 mL
10 mM	0.3163 mL	1.5816 mL	3.1632 mL
50 mM	0.0633 mL	0.3163 mL	0.6326 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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