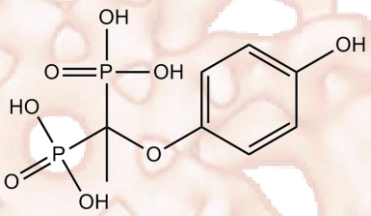
Product Data Sheet

L-690,330



Cat. No.:	B5011
CAS No.:	142523-38-4
Formula:	C8H12O8P2
M.Wt:	298.13
Synonyms:	
Target:	Others
Pathway:	Inositol Phosphatases
Storage:	Store at RT

Solvent & Solubility

In Vitro

<29.81mg/ml in H2O

Preparing Stock Solutions

Mass / Solvent / Concentration	1mg	5mg	10mg
1 mM	3.3542 mL	16.7712 mL	33.5424 mL
5 mM	0.6708 mL	3.3542 mL	6.7085 mL
10 mM	0.3354 mL	1.6771 mL	3.3542 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary	competitive inhibitor of inositol monophosphatase (IMPase)
IC_{50} & Target	

In Vitro

Cell Viability Assay

Cell Line:	M1 CHO cells
Preparation method:	The solubility of this compound in sterile water is 100 mM. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below - 20 °C for several months.
Reacting conditions:	0.1 ~ 10 mM
Applications:	In Carbachol-stimulated m1 CHO cells, L-690,330 alone did not increase the

		amount of [3H]InsP1; lithium alone slightly elevated the amount of [3H]InsP1; Carbachol alone increased the amount of [3H]InsP1 ranging from 20 to 100%.
In Vivo	**Animal experiment**	
	Animal models:	Pilocarpine-stimulated mice
	Dosage form:	0 ~ 1 mmol/kg; s.c.
	Applications:	In Pilocarpine-stimulated mice, L-690,330 dose-dependently increased brain Ins(1)P levels, with the ED50 values of 0.3 mmol/kg. L-690,330 induced a maximal increase in the Ins(1)P level (about 4-fold) 1 hr after injection.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

See more customer validations on www.apexbt.com.

References

[1]. Atack JR, Cook SM, Watt AP, et al. In Vitro and In Vivo Inhibition of Inositol Monophosphatase by the Bisphosphonate L-690,330. Journal of neurochemistry, 1993, 60(2): 652-658.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.