

NBI-31772

Chemical Properties

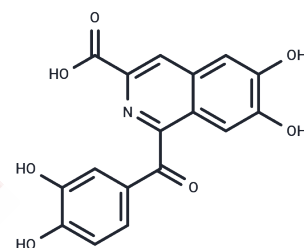
CAS No. : 374620-70-9

Formula: C₁₇H₁₁NO₇

Molecular Weight: 341.27

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	NBI-31772 (NBI 31772) is the potent inhibitor of insulin-like growth factor-1 binding protein (IGFBP, Ki = 47 nM). NBI-31772 can be used in research on IGF-responsive diseases.
Targets(IC50)	IGF-1R

Solubility Information

Solubility	DMSO: 150 mg/mL (439.53 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9302 mL	14.6512 mL	29.3023 mL
5 mM	0.586 mL	2.9302 mL	5.8605 mL
10 mM	0.293 mL	1.4651 mL	2.9302 mL
50 mM	0.0586 mL	0.293 mL	0.586 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

Rinker TE, et al. Microparticle-mediated sequestration of cell-secreted proteins to modulate chondrocytic differentiation. *Acta Biomater.* 2017 Dec 30. pii: S1742-7061(17)30804-8.

Safian D, et al. Follicle-Stimulating Hormone Regulates igfbp Gene Expression Directly or via Downstream Effectors to Modulate Igf3 Effects on Zebrafish Spermatogenesis. *Front Endocrinol (Lausanne).* 2017 Nov 20;8:328.

Lékó AH, et al. Insulin-like growth factor I and its binding protein-3 are regulators of lactation and maternal responsiveness. *Sci Rep.* 2017 Jun 13;7(1):3396.

Safian D, et al. Igf Binding Proteins Protect Undifferentiated Spermatogonia in the Zebrafish Testis Against Excessive Differentiation. *Endocrinology.* 2016 Nov;157(11):4423-4433. Epub 2016 Sep 30.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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