

NBI-31772 hydrate

Chemical Properties

CAS No. :

Formula: C17H13NO8

Molecular Weight: 372.82

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 hydrate is a powerful inhibitor of the interaction between insulin-like growth factor (IGF) and IGF-binding proteins (IGFBPs). It acts as a nonpeptide ligand, effectively releasing bioactive IGF-I from the IGF-I/IGFBP-3 complex (K _i values for all six human subtypes range from 1-24 nM). This compound demonstrates significant anxiolytic and antidepressant-like effects [1] [2] [3].
Targets(IC50)	Others,IGF-1R
In vivo	NBI-31772 administered intracerebroventricularly (icv) in doses ranging from 5 to 100 µg to Sprague-Dawley rats subjected to the subtemporal middle cerebral artery occlusion (MCAO) model, either immediately or up to 3 hours post-MCAO, dose-dependently mitigated infarct size. Specifically, the maximum dose of 100 µg significantly diminished both overall and cortical infarct volumes, showcasing its protective efficacy against ischemic brain injury [3].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6823 mL	13.4113 mL	26.8226 mL
5 mM	0.5365 mL	2.6823 mL	5.3645 mL
10 mM	0.2682 mL	1.3411 mL	2.6823 mL
50 mM	0.0536 mL	0.2682 mL	0.5365 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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