

TAT-GluN2BCTM

Chemical Properties

CAS No. :	1587742-50-4
Formula:	C224H374N86O54
Molecular Weight:	5135.91
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

Biological Description

Description	TAT-GluN2BCTM is a membrane-permeable peptide that selectively targets active DAPK1 (Death-associated protein kinase 1) for lysosomal degradation, protecting neurons against oxidative stress and NMDAR-mediated excitotoxicity, making it valuable for neuroprotection research studies [1].
Targets(IC50)	DAPK
In vitro	TAT-GluN2BCTM (200 µM) reduces DAPK1 levels in NMDA-treated primary neuronal cultures in a time-dependent manner over 0.5, 2, and 4 hours [1].
In vivo	Administration of TAT-GluN2BCTM (10 mg/kg; i.v.; single) resulted in a significant decrease in the levels of active DAPK1 in the ischemic hemisphere of the rat brain [1]. TAT-GluN2BCTM demonstrated substantial neuroprotective effects in the cortex and striatum of rats [1]. Furthermore, TAT-GluN2BCTM was able to specifically reduce the activity of the active (but not inactive) form of DAPK1 [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.1947 mL	0.9735 mL	1.9471 mL
5 mM	0.0389 mL	0.1947 mL	0.3894 mL
10 mM	0.0195 mL	0.0974 mL	0.1947 mL
50 mM	0.0039 mL	0.0195 mL	0.0389 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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