

## Tat-NR2B9c acetate

## Chemical Properties

CAS No. :

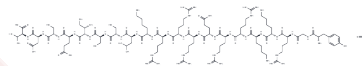
Formula: C107H192N42O32

Molecular Weight: 2578.93

Keep away from moisture

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	Tat-NR2B9c acetate (NA-1 acetate) is a postsynaptic density-95 (PSD-95) inhibitor, with EC50 values of 6.7 nM and 670 nM for PSD-95d2 (PSD-95 PDZ domain 2) and PSD-95d1, respectively. Tat-NR2B9c acetate disrupts the PSD-95/NMDAR interaction, inhibiting NR2A and NR2B binding to PSD-95 with IC50 values of 0.5 μM and 8 μM, respectively. Tat-NR2B9c acetate also inhibits neuronal nitric oxide synthase (nNOS)/PSD-95 interaction, and possesses neuroprotective efficacy.
Targets(IC50)	Others

## Solubility Information

Solubility	DMSO: < 1 mg/mL (insoluble) H2O: 12.98 mg/mL (5.03 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	0.3878 mL	1.9388 mL	3.8776 mL
5 mM	0.0776 mL	0.3878 mL	0.7755 mL
10 mM	0.0388 mL	0.1939 mL	0.3878 mL
50 mM	0.0078 mL	0.0388 mL	0.0776 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

Cui H, et al. PDZ protein interactions underlying NMDA receptor-mediated excitotoxicity and neuroprotection by PSD-95 inhibitors. *J Neurosci*. 2007 Sep 12;27(37):9901-15.

Fan J, et al. P38 MAPK is involved in enhanced NMDA receptor-dependent excitotoxicity in YAC transgenic mouse model of Huntington disease. *Neurobiol Dis*. 2012 Mar;45(3):999-1009.

Teves LM, et al. Efficacy of the PSD95 inhibitor Tat-NR2B9c in mice requires dose translation between species. *J Cereb Blood Flow Metab*. 2016 Mar;36(3):555-61.

Jing Fan, et al. N-methyl-D-aspartate Receptor Subunit- And Neuronal-Type Dependence of Excitotoxic Signaling Through Post-Synaptic Density 9. *J Neurochem*. 2010 Nov;115(4):1045-56.

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