Product Data Sheet

Product Name: Tat-NR2Baa
Cat. No.: GC60354

Chemical Properties

Cas. No.	847829-41-8		
Formula	$C_{103}H_{184}N_{42}O_{29}$	M.Wt	2474.83
Solubility		Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	Tat-NR2Baa		

Background

Tat-NR2BAA is the control peptide of Tat-NR2B9c , inactive. The sequence of Tat-NR2BAA is similar to Tat-NR2B9c, but it has a double-point mutation in the COOH terminal tSXV motif, making it incapable of binding PSD-95. Tat-NR2B9c is a membrane-permeant peptide and disrupts PSD-95/NMDAR binding, correlate with uncoupling NR2B- and/or NR2A-type NMDARs from PSD-95[1][2].

Tat-NR2BAA (125 ng; 20 mins) does not effects interactions between PSD-95 and NR2B subunits. In contrast, coimmunoprecipitation of PSD-95 with NR2B subunits is markedly decreased in rats pretreated with the disrupting peptide Tat-NR2B9c in lumbar dorsal horn tissue[1]. Tat-NR2Baa (125 ng or 1.25 μg; 20 minutes before collection of lumbar dorsal horn tissue) is the control group of Tat-NR2B9c. Tat-NR2B9c produces a significant and robust reduction of postdischarge, indicating the hyperexcitability of the cell. But Tat-NR2Baa has no effects, even at a dose 100× greater than the active peptide Tat-NR2B9c [1].Tat-NR2Baa (1 μM; pre-treatment 1 hour) is the control group in the Co-IP assay. Tat-NR2B9c (1 μM) disrupts NR2B/PSD95 interaction, and the coupling of NR2B to PSD-95 is more sensitive than NR2A/PSD95 to disruption in hippocampal neurons[2].

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[1]. Michelle Aarts, et al. Treatment of Ischemic Brain Damage by Perturbing NMDA Receptor- PSD-95 Protein Interactions. Science

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