

## TAT-Gap19 acetate

## Chemical Properties

CAS No. :

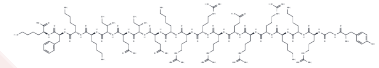
Formula: C119H212N46O26

Molecular Weight: 2703.25

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-Gap19 acetate is a specific inhibitor of connexin43 hemichannel (Cx43 HC). TAT-Gap19 acetate traverses the blood-brain barrier and alleviates liver fibrosis in mice. TAT-Gap19 acetate does not inhibit the corresponding Cx43 GJCs.
Targets(IC50)	Gap Junction Protein
In vivo	TAT-Gap19 acetate (1 mg/kg/day) showed significantly decreased collagen deposition, as well as lower amounts of $\alpha$ -SMA-positive cells area in mice subjected to treatment with 100-200 mg thioacetamide (TAA)/kg body weight for eight weeks[1]. In 4 months old C57Bl6 male mice, TAT-Gap19 acetate (i.v.; 55 mg/kg) produces significant immune signal in the brain 24 h later[2].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.3699 mL	1.8496 mL	3.6993 mL
5 mM	0.074 mL	0.3699 mL	0.7399 mL
10 mM	0.037 mL	0.185 mL	0.3699 mL
50 mM	0.0074 mL	0.037 mL	0.074 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

Sara Crespo Yanguas, et al. TAT-Gap19 and Carbenoxolone Alleviate Liver Fibrosis in Mice. *Int J Mol Sci.* 2018 Mar 12;19(3):817.

Laura Walrave, et al. Inhibition of astroglial connexin43 hemichannels with TAT-Gap19 exerts anticonvulsant effects in rodents. *Glia.* 2018 Aug;66(8):1788-1804.

Verónica Abudara, et al. The connexin43 mimetic peptide Gap19 inhibits hemichannels without altering gap junctional communication in astrocytes. *Front Cell Neurosci.* 2014 Oct 21;8:306.

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