

## Tat-peptide control 168-189 TFA

## Chemical Properties

CAS No. :

Formula: C162H239N47O65S.C2HF3O2

Molecular Weight: 4030.99

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-peptide 168-189, a cell-permeable, Tat-labeled fusion peptide derived from residues 168-189 of rat G3BP1, features the HIV Tat sequence at its least conserved terminus to enhance cellular uptake. It serves as the negative control for Tat-peptide 168-189 TFA, which promotes axon growth and neurite proliferation [1].                                      |
| In vitro    | Tat-peptide 168-189 TFA at concentrations of 10 $\mu$ M and 20 $\mu$ M administered for 24 hours enhanced axonal length in isolated DRG cultures by 10 $\mu$ M and in iMotor neurons by 20 $\mu$ M [1]. Additionally, a concentration of 10 $\mu$ M of Tat-peptide 168-189 TFA applied for 3 days increased the total number of axons extending from each neuron [1]. |

## Preparing Stock Solutions

|       | 1mg       | 5mg       | 10mg      |
|-------|-----------|-----------|-----------|
| 1 mM  | 0.2481 mL | 1.2404 mL | 2.4808 mL |
| 5 mM  | 0.0496 mL | 0.2481 mL | 0.4962 mL |
| 10 mM | 0.0248 mL | 0.124 mL  | 0.2481 mL |
| 50 mM | 0.005 mL  | 0.0248 mL | 0.0496 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.

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