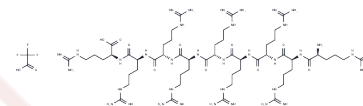


(Arg)9 TFA (143413-47-2 free base)

## Chemical Properties

CAS No. : 2283335-13-5  
 Formula: C56H111F3N36O12  
 Molecular Weight: 1537.71  
 Storage: Keep away from moisture  
 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	(Arg)9 TFA (Peptide R9 TFA) is a cell-penetrating peptide. (Arg)9 TFA (Nona-L-arginine TFA) exhibits neuroprotective activity with an IC50 of 0.78 $\mu$ M in the glutamic acid model.
Targets(IC50)	Others,Serine Protease
In vivo	(Arg)9 (D-isoform) is neuroprotective in rat stroke models. (Arg)9 is highly neuroprotective, with efficacy increasing with increasing arginine content. It has the capacity to reduce glutamic acid-induced neuronal calcium influx and requires heparan sulfate proteoglycan-mediated endocytosis to induce a neuroprotective effect[2]. (Arg)9 (D-isoform) administered intravenously at a dose of 1000 nmol/kg 30 min after permanent middle cerebral artery occlusion (MCAO) reduces infarct volume[3].

## Solubility Information

Solubility	H2O: 10 mM,Sonication is recommended. DMSO: Insoluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.6503 mL	3.2516 mL	6.5032 mL
5 mM	0.1301 mL	0.6503 mL	1.3006 mL
10 mM	0.065 mL	0.3252 mL	0.6503 mL
50 mM	0.013 mL	0.065 mL	0.1301 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

Meloni BP, et al. The neuroprotective efficacy of cell-penetrating peptides TAT, penetratin, Arg-9, and Pep-1 in glutamic acid, kainic acid, and in vitro ischemia injury models using primary cortical neuronal cultures. Cell Mol Neurobiol. 2014 Mar;34(2):173-81.

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