

(Arg)9 acetate

Chemical Properties

CAS No. :

Formula: C56H114N36O12

Molecular Weight: 1483.74

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	Nona-L-arginine (Arg)9 acetate, a cell-penetrating peptide (CPP) consisting of 9 arginine residues, displays neuroprotective properties, with an IC50 of 0.78 μ M in the glutamic acid model [1] [2].
Targets(IC50)	Serine Protease
In vitro	(Arg)9 acetate, at concentrations of 5-10 μ M, demonstrates substantial dose-dependent neuroprotection against glutamic acid exposure, with an IC50 value of 0.78 μ M. Its neuroprotective efficacy is reduced in the kainic acid model, exhibiting an IC50 of 0.81 μ M. Moreover, it provides neuroprotection in in vitro ischemic conditions, with an IC50 of 6 μ M [1].
In vivo	The compound '(Arg)9' (Nona-L-arginine; administered intravenously at 1 μ M/kg in a volume of 600 μ L; once for 30 minutes) exhibits neuroprotective properties and decreases infarct size in male Sprague-Dawley rats using a permanent middle cerebral artery stroke model [2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.674 mL	3.3699 mL	6.7397 mL
5 mM	0.1348 mL	0.674 mL	1.3479 mL
10 mM	0.0674 mL	0.337 mL	0.674 mL
50 mM	0.0135 mL	0.0674 mL	0.1348 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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