

Mas7 acetate(145854-59-7 free base)

Chemical Properties

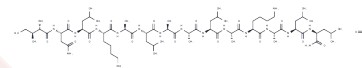
CAS No. :

Formula: C69H128N18O17

Molecular Weight: 1481.86

Storage: Keep away from moisture,Store at low temperature
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	Mas7 acetate(145854-59-7 free base) (Mastoparan 7 acetate) , a structural analogue of mastoparan is a known activator of heterotrimeric Gi-proteins and its downstream effectors.
Targets(IC50)	Others
In vitro	Mas7 produces several biological effects in different cell types. The effect of Mas7 on endogenous mono-ADP-ribosyltransferase activity is in the micromolar range with a maximal activation of 205% over the basal. In pertussis treated plasma membranes, it is found that the effect of Mas7 on endogenous mono-ADP-ribosyltransferase is partially blocked, which suggests the involvement of G-proteins, such as Gi or G0[1]. Mas7 is a basic tetradecapeptide isolated from isp venom, which activates guanine nucleotide-binding regulatory proteins (G-proteins) and stimulates apoptosis. In smooth muscle cells, Mas7 leads to an increase in the perfusion pressure. Vascular contraction is induced by Mas7. The vasoconstriction triggered by mas-7 exhibited a slower increase compared to that simulated by phenylephrine or vasopressin[2]. Exposure of hippocampal neurons to a low dose of Mas-7 increases dendritic spine density and spine head width in a time-dependent manner. Additionally, Mas-7 enhances postsynaptic density protein-95 (PSD-95) clustering in neurites and activates Gαo signaling, increasing the intracellular Ca ²⁺ concentration[3].

Solubility Information

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

	1mg	5mg	10mg
1 mM	0.6748 mL	3.3741 mL	6.7483 mL
5 mM	0.135 mL	0.6748 mL	1.3497 mL
10 mM	0.0675 mL	0.3374 mL	0.6748 mL
50 mM	0.0135 mL	0.0675 mL	0.135 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

Bavec A, et al. Novel features of amphiphilic peptide Mas7 in signalling via heterotrimeric G-proteins. *J Pept Sci.* 2004 Nov;10(11):691-9.

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