

Nonapeptide-1 acetate salt

Chemical Properties

CAS No. :

Formula: C₆₃H₉₁N₁₅O₁₁S

Molecular Weight: 1266.56

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	Nonapeptide-1 (Melanostatine-5) acetate salt is a peptide hormone that functions as a selective and competitive antagonist of the melanocortin 1 receptor (MC1R) with a binding affinity (K _i) of 40 nM. It effectively inhibits α-MSH-induced increases in intracellular cyclic AMP (cAMP) and melanosome dispersion in melanocytes, with inhibitory concentrations (IC ₅₀) of 2.5 nM and 11 nM, respectively. By inhibiting melanin synthesis, Nonapeptide-1 acetate salt is used in research related to skin pigmentation, adrenal gland steroid production regulation, and skin cancer [1] [2] [3].
Targets(IC ₅₀)	Melanocortin Receptor

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.7895 mL	3.9477 mL	7.8954 mL
5 mM	0.1579 mL	0.7895 mL	1.5791 mL
10 mM	0.079 mL	0.3948 mL	0.7895 mL
50 mM	0.0158 mL	0.079 mL	0.1579 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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