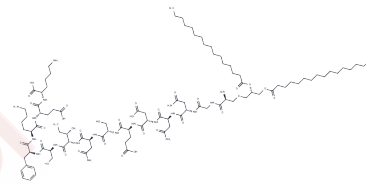


Macrophage-activating lipopeptide 2

Chemical Properties

CAS No. :	250718-44-6
Formula:	C99H167N19O30S
Molecular Weight:	2135.56
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Macrophage-activating lipopeptide 2 (MALP-2) is a lipopeptide that acts as an agonist for Toll-like receptors TLR-2 and TLR-6. It enhances the phosphorylation of endothelial nitric oxide synthase (eNOS) and the release of nitric oxide (NO) by endothelial cells, thereby improving vasodilation. Additionally, MALP-2 increases the adhesion of leukocytes to the endothelium and enhances perfusion recovery and collateral growth in the hind limbs of hypercholesterolemic Apoe-deficient mice subjected to experimental femoral artery ligation (FAL).
In vitro	Macrophage-activating lipopeptide 2 (1 µg/mL, 24 h) enhances the expression of primary endothelial adhesion molecules and leukocyte integrin receptors, thereby improving leukocyte endothelial adhesion. Additionally, Macrophage-activating lipopeptide 2 (1 µg/mL, 2 h) promotes the phosphorylation of Protein Kinase B and eNOS in endothelial MyEnd cells, facilitating the release of nitric oxide (NO).
In vivo	Macrophage-activating lipopeptide 2 (1 µg dissolved in 125 µL PBS; administered daily; for 10 days; via intravenous injection) enhances perfusion recovery and collateral growth in the hind limbs of hypercholesterolemic Apoe knockout mice subjected to experimental femoral artery ligation (FAL).

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.4683 mL	2.3413 mL	4.6826 mL
5 mM	0.0937 mL	0.4683 mL	0.9365 mL
10 mM	0.0468 mL	0.2341 mL	0.4683 mL
50 mM	0.0094 mL	0.0468 mL	0.0937 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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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481