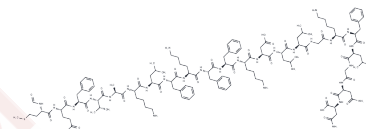


PSM α 3

Chemical Properties

CAS No. :	1001405-52-2
Formula:	C128H192N28O30S
Molecular Weight:	2635.17
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	PSM α 3 is a peptide compound that can be utilized to induce tolerance in dendritic cells (DCs) for DC vaccination strategies. It effectively penetrates and modulates human monocyte-derived DCs by modifying the maturation process induced by TLR2 or TLR4. Additionally, PSM α 3 inhibits the production of both pro- and anti-inflammatory cytokines and decreases antigen uptake. Notably, PSM α 3 is a significant virulence factor released by the most pathogenic strains of methicillin-resistant Staphylococcus aureus (MRSA).
Targets(IC50)	Others,TLR

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.3795 mL	1.8974 mL	3.7948 mL
5 mM	0.0759 mL	0.3795 mL	0.759 mL
10 mM	0.0379 mL	0.1897 mL	0.3795 mL
50 mM	0.0076 mL	0.0379 mL	0.0759 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

Richardson JR, et, al. Staphylococcus aureus PSM Peptides Modulate Human Monocyte-Derived Dendritic Cells to Prime Regulatory T Cells. Front Immunol. 2018 Nov 13;9:2603.

Tayeb-Fligelman E, et, al. The cytotoxic Staphylococcus aureus PSM α 3 reveals a cross- α amyloid-like fibril. Science. 2017 Feb 24;355(6327):831-833.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481