

Product Data Sheet

Product Name: PSM α 3
Cat. No.: GC72142

Chemical Properties

Cas. No. 1001405-52-2

Formula C₁₂₈H₁₉₂N₂₈O₃₀S M.Wt 2635.13

Solubility DMSO : 100 mg/mL (37.95 mM);
Need ultrasonic; Hygroscopic DMSO
has a significant impact on the
solubility of product, please use
newly opened DMSO)

Storage Store at -20°C, protect from light

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

{f}-MEFVAKLFKFFKDLLGKFLGNN

Background

PSM α 3 is a peptide for manipulating DCs to become tolerogenic for DC vaccination strategies. PSM α 3 penetrates and modulates human monocyte-derived DCs by altering the TLR2- or TLR4-induced maturation, inhibiting pro- and anti-inflammatory cytokine production and reducing antigen uptake. PSM α 3 is an important toxin released by the most virulent strains of methicillin-resistant

Caution: Product has not been fully validated for medical applications. For research use only.

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Staphylococcus aureus (MRSA).

References:

- [1]. 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.
- [2]. 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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