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DATASHEET

Pam3CSK4

Product overview

Name Pam3CSK4
Cat No HB3428

Biological description Synthetic lipopeptide that mimics bacterial lipoprotein. Acts as an agonist of the Toll-like receptor

TLR1/TLR2 complex to potently activate NF- κ B. Activates monocytes and macrophages and induces cytokine production (e.g. TNF- α and IL-6 in macrophages). Also upregulates proinflammatory and T_h1 cytokine genes and promotes differentiation of naive CD4+ T cells into T_h17 cells. Additionally acts as

an effective immune adjuvant.

Alternative names Pam3CysSerLys4, Pam3

Biological action Agonist
Purity >95%

Description TLR1/TLR2 agonist and potent NF-κB activator. Induces cytokine production.

Solubility & Handling

Storage instructions -20°C

Solubility overview Soluble in water (1 mg/ml)

Storage of solutions Prepare and use solutions on the same day if possible. Store solutions at -20 °C for up to one month if

storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.

Shipping Conditions Stable for ambient temperature shipping. Follow storage instructions on receipt.

Important This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not

for human or veterinary use

Chemical Data

Sequence (one letter) CSKKKK

Modifications (Modifications: Cys-1 = S-[2,3-Bis(palmitoyloxy)-(2-R/S)-propyl]-N-palmitoyl]-Cys

CAS Number 112208-00-1 PubChem identifier 130704

InChiKey OEDPHAKKZGDBEV-GFPBKZJXSA-N

Appearance White solid

References

The synthetic bacterial lipopeptide Pam3CSK4 modulates respiratory syncytial virus infection independent of TLR activation.

Nguyen DT et al (2010) PLoS pathogens 6 **PubMedID**20808895

She Z et al (2017) Analytical chemistry 89 **PubMedID**28374588

Toll-like receptor 2 agonist Pam3CSK4 enhances the induction of antigen-specific tolerance via the sublingual route.

Lombardi V et al (2008) Clinical and experimental allergy : journal of the British Society for Allergy and Clinical Immunology 38 **PubMedID** 18644025