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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 potentially 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 _H 1 cytokine genes and promotes differentiation of naive CD4 ⁺ T cells into T _H 17 cells. Additionally acts as an effective immune adjuvant.
Alternative names	Pam3CysSerLys4, Pam3
Biological action	Agonist
Purity	>95%
Description	TLR1/TLR2 agonist and potent NF- κ B activator. Induces cytokine production.

Solubility & Handling

Storage instructions	-20 °C
Solubility overview	Soluble in water (1 mg/ml)
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

Molecular Weight	1510.24
Molecular Formula	C ₈₁ H ₁₅₆ N ₁₀ O ₁₃ S
Sequence (one letter)	CSK KKK
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

Detection of the Lipopeptide Pam3CSK4 Using a Hybridized Toll-like Receptor Electrochemical Sensor.

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
