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DATASHEET

Pam2CSK4

Product overview

Name	Pam2CSK4
Cat No	HB3086
Biological description	Synthetic lipopeptide which mimics bacterial lipoprotein. Pam2CSK4 is recognized by the TLR2/TLR6 heterodimer to induce NF-κB activation and cytokine production. Induces platelet activation in a TLR2/TLR6/NF-κB -dependent manner. Also acts as an effective immune adjuvant.
Alternative names	Pam2CysSerLys4, Pam2
Biological action	Agonist
Purity	>95%
Description	TLR2/6 activator. Induces potent NF-κB activation and cytokine production.

Solubility & Handling

Storage instructions	-20 °C
Solubility overview	Soluble in aqueous buffer (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	1271.83
Molecular Formula	C ₆₅ H ₁₂₆ N ₁₀ O ₁₂ S
Sequence (one letter)	CSK KKK
Modifications	(Modifications: Cys-1 = S-[2,3-Bis(palmitoyloxy)-(2-R)-propyl]-Cys)
CAS Number	868247-72-7
PubChem identifier	71457280
InChiKey	LJUIOEFZFQRWJG-GHYFRYPYSA-N
Appearance	White solid

References

The TLR2/6 ligand PAM2CSK4 is a Th2 polarizing adjuvant in Leishmania major and Brugia malayi murine vaccine models.

Halliday A et al (2016) Parasites & vectors 9

PubMedID [26897363](#)

The Toll-Like Receptor 2 Ligand Pam2CSK4 Activates Platelet Nuclear Factor-κB and Bruton's Tyrosine Kinase Signaling to Promote Platelet-Endothelial Cell Interactions.

Parra-Izquierdo I et al (2021) Frontiers in immunology 12

PubMedID [34527000](#)

Pam2CSK4 (TLR2 agonist) induces periodontal destruction in mice.

Souza JAC et al (2020) Brazilian oral research 34

PubMedID

[32049112](#)

Pam2CSK4 and Pam3CSK4 induce iNOS expression via TBK1 and MyD88 molecules in mouse macrophage cell line RAW264.7.

Kulsantiwong P et al (2017) Inflammation research : official journal of the European Histamine Research Society ... [et al.] 66

PubMedID

[28593434](#)
