

Pam2CSK4

Cat. No.:	HY-P1181
CAS No.:	868247-72-7
Molecular Formula:	C ₆₅ H ₁₂₆ N ₁₀ O ₁₂ S
Molecular Weight:	1271.82
Sequence:	{{(2R)-2,3-Bis(1-oxohexadecyl)oxy}propyl}-Cys-Ser-Lys-Lys-Lys-Lys
Sequence Shortening:	{{(2R)-2,3-Bis(1-oxohexadecyl)oxy}propyl}-CSKKKK
Target:	Toll-like Receptor (TLR)
Pathway:	Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description

Pam2CSK4, a lipopeptide, is a TLR6-independent TLR2 ligand and agonist. Pam2CSK4 promotes platelet aggregation, and increases platelet adhesion to collagen-coated surfaces in a TLR2/NF-κB/BTK-dependent manner. Pam2CSK4 also activates iNOS expression and NO production in mouse macrophages^{[1][2][3]}.

REFERENCES

- [1]. Parra-Izquierdo I, et al. The Toll-Like Receptor 2 Ligand Pam2CSK4 Activates Platelet Nuclear Factor-κB and Bruton's Tyrosine Kinase Signaling to Promote Platelet-Endothelial Cell Interactions. *Front Immunol.* 2021 Aug 30;12:729951.
- [2]. Kulsantiwong P, et al. Pam2CSK4 and Pam3CSK4 induce iNOS expression via TBK1 and MyD88 molecules in mouse macrophage cell line RAW264.7. *Inflamm Res.* 2017 Oct;66(10):843-853.
- [3]. Kaur A, et al. An efficient and scalable synthesis of potent TLR2 agonistic PAM2CSK4. *RSC Adv.* 2018 Mar 5;8(18):9587-9596.

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

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