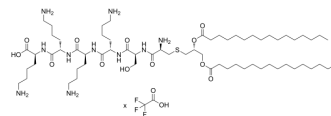


## Pam2CSK4 TFA

**Cat. No.:** HY-P1181A  
**Molecular Formula:** C<sub>65</sub>H<sub>126</sub>N<sub>10</sub>O<sub>12</sub>S.xC<sub>2</sub>HF<sub>3</sub>O<sub>2</sub>  
**Target:** Toll-like Receptor (TLR)  
**Pathway:** Immunology/Inflammation  
**Storage:** Sealed storage, away from moisture and light  
 Powder -80°C 2 years  
 -20°C 1 year



\* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)

### SOLVENT & SOLUBILITY

**In Vitro** H<sub>2</sub>O : 100 mg/mL (Need ultrasonic)

### BIOLOGICAL ACTIVITY

**Description** Pam2CSK4 (TFA), a lipopeptide, is a TLR6-independent TLR2 ligand and agonist. Pam2CSK4 (TFA) promotes platelet aggregation, and increases platelet adhesion to collagen-coated surfaces in a TLR2/NF-κB/BTK-dependent manner. Pam2CSK4 (TFA) also activates iNOS expression and NO production in mouse macrophages<sup>[1][2][3]</sup>.

### 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]. Kaur A, et al. An efficient and scalable synthesis of potent TLR2 agonistic PAM2CSK4. *RSC Adv.* 2018 Mar 5;8(18):9587-9596.
- [3]. 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.

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

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