

Certificate of Analysis

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Product Name: Pam2CSK4

Catalog No.: 4637

Batch No.: 13

CAS Number: 868247-72-7

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₆₅H₁₂₆N₁₀O₁₂S
Batch Molecular Weight: 1271.83
Physical Appearance: White lyophilised solid
Counter Ion: TFA
Solubility: Soluble to 1 mg/ml in 0.25% acetic acid
Storage: Store at -20°C
Peptide Sequence: Cys(Pam₂)-Ser-Lys-Lys-Lys-Lys

2. ANALYTICAL DATA

HPLC: Shows 99.2% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical			Actual	
Ala			Lys	3.98
Arg			Met	
Asx			Phe	
Cys	1.00	Not Detected	Pro	
Glx			Ser	1.02
Gly			Thr	
His			Trp	
Ile			Tyr	
Leu			Val	

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Batch No.: 13

CAS Number: 868247-72-7

Description:

Pam2CSK4 is a toll-like receptor 2/6 (TLR2/6) agonist. Induces TNF- α production in human mononuclear cells. Also induces proliferation and activation of mouse splenic B cells.

Physical and Chemical Properties:

Batch Molecular Formula: C₆₅H₁₂₆N₁₀O₁₂S

Batch Molecular Weight: 1271.83

Physical Appearance: White lyophilised solid

Peptide Sequence:

Cys(Pam₂)-Ser-Lys-Lys-Lys-Lys

Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 1 mg/ml in 0.25% acetic acid

This product is supplied in lyophilized form. It may appear as a solid, gel or film and be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

Counter Ion: TFA

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Peptides in solution are much less stable than in lyophilized form. This is especially true for peptides whose sequences contain amino acids such as Cys, Met, Trp, Asn, Gln, and N-terminal Glu.

Therefore we recommend storing peptides in solution for as short a time as possible. Avoid repeated freeze thaw cycles by dividing the peptide solution into aliquots and storing the aliquots at -20°C. Any portion of an aliquot unused after thawing should be discarded.

Peptides stored in solution can occasionally be susceptible to bacterial degradation. We recommend using sterile solutions or passing the peptide solution through a 0.2 μ m filter to remove potential bacterial contamination whenever possible.

References:

Boeglin *et al* (2011) Toll-like receptor agonists synergize with CD40L to induce either proliferation or plasma cell differentiation of mouse B cells. *PLoS One* **6** e25542. PMID: 21991317.

Schroemm *et al* (2007) Physicochemical and biological analysis of synthetic bacterial lipopeptides: validity of the concept of endotoxic conformation. *J.Biol.Chem.* **282** 11030. PMID: 17308304.

Omuetti *et al* (2005) Domain exchange between human Toll-like receptors 1 and 6 reveals a region required for lipopeptide discrimination. *J.Biol.Chem.* **280** 36616. PMID: 16129684.

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