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Print Date: Nov 16th 2018

Certificate of Analysis

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Product Name: Pam2CSK4 Biotin **Catalog No.:** 4638 **Batch No.:** 1

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{87}H_{162}N_{14}O_{16}S_2$

Batch Molecular Weight: 1724.44

Physical Appearance: White lyophilised solid

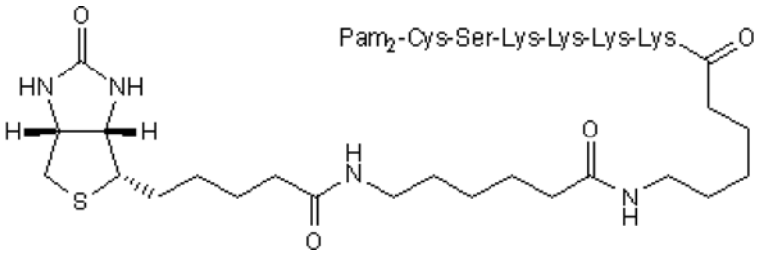
Net Peptide Content: 76%

Counter Ion: TFA

Solubility: Soluble to 1 mg/ml in 20% acetonitrile - 0.1% acetic acid

Storage: Store at -20°C

Peptide Sequence:



2. ANALYTICAL DATA

HPLC: Shows N/A% purity

Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid	Theoretical	Actual	Amino Acid	Theoretical	Actual
Ala			Lys	4.00	3.92
Arg			Met		
Asx			Phe		
Cys			Pro		
Glx			Ser	1.00	1.08
Gly			Thr		
His			Trp		
Ile			Tyr		
Leu			Val		

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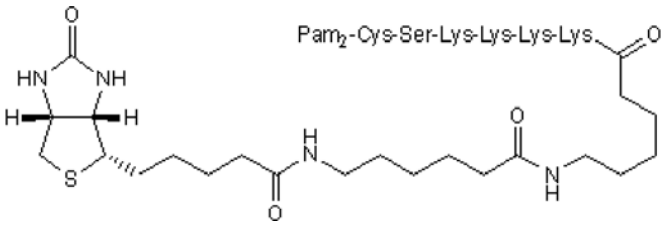
Product Name: **Pam2CSK4 Biotin** **Catalog No.: 4638** **Batch No.: 1**

Description:
Biotinylated Pam2CSK4 (Cat. No. 4637), a Toll-like receptor 2/6 agonist.

Physical and Chemical Properties:
Batch Molecular Formula: $C_{87}H_{162}N_{14}O_{16}S_2$
Batch Molecular Weight: 1724.44
Physical Appearance: White lyophilised solid

Peptide Sequence:



Storage: Store at -20°C

Solubility & Usage Info:
Soluble to 1 mg/ml in 20% acetonitrile - 0.1% acetic acid
This product is supplied as a lyophilized solid and may 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.

Net Peptide Content: 76% (Remaining weight made up of counterions and residual water).

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 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 µm filter to remove potential bacterial contamination whenever possible.

References:
Latz *et al* (2007) Ligand-induced conformational changes allosterically activate Toll-like receptor 9. Nat.Immunol. ***8*** 772. PMID: 17572678.