

Certificate of Analysis

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Product Name: FSL 1
CAS Number: 322455-70-9

Catalog No.: 6011 **Batch No.:** 4

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₈₄H₁₄₀N₁₄O₁₈S
Batch Molecular Weight: 1666.16
Physical Appearance: White lyophilised solid
Counter Ion: TFA
Solubility: Soluble to 2 mg/ml in water
Storage: Store at -20°C
Peptide Sequence: Cys(Pam₂)-Gly-Asp-Pro-Lys-His-Pro-Lys-Ser-Phe

2. ANALYTICAL DATA

HPLC: Shows 97.6% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical			Amino Acid Theoretical		
Actual			Actual		
Ala			Lys	2.00	1.99
Arg			Met		
Asx	1.00	0.94	Phe	1.00	0.98
Cys	1.00	Detected	Pro	2.00	2.00
Glx			Ser	1.00	1.01
Gly	1.00	1.01	Thr		
His	1.00	1.15	Trp		
Ile			Tyr		
Leu			Val		

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

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Product Information

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Product Name: FSL 1

Catalog No.: 6011

Batch No.: 4

CAS Number: 322455-70-9

Description:

FSL 1 is a TLR2/6 agonist (also a putative TLR10 ligand). Activates NF- κ B. Induces pro-inflammatory cytokines including IL-8, IL-1 β , CCL20 and TNF- α in vitro. Synergizes with IFN γ to induce CXCL10 release from melanoma cells.

Physical and Chemical Properties:

Batch Molecular Formula: C₈₄H₁₄ON₁₄O₁₈S

Batch Molecular Weight: 1666.16

Physical Appearance: White lyophilised solid

Peptide Sequence:

Cys(Pam₂)-Gly-Asp-Pro-Lys-His-Pro-Lys-Ser-Phe

Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 2 mg/ml in water

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.

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:

Le et al (2016) Stable toll-like receptor 10 knockdown in THP-1 cells reduces TLR-ligand-induced proinflammatory cytokine expression. *Int.J.Mol.Sci.* **17** E859. PMID: 27258267.

Mauldin et al (2015) TLR2/6 agonists and IFN- γ induce human melanoma cells to produce CXCL10. *Int.J.Cancer* **137** 1386. PMID: 25765738.

Okusawa et al (2004) Relationship between structures and biological activities of mycoplasmal diacylated lipopeptides and their recognition by toll-like receptors 2 and 6. *Infect.Immun.* **72** 1657. PMID: 14977973.

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