



LKT Laboratories, Inc.

FSL-1

Phone: 888-558-5227
651-644-8424
Fax: 888-558-7329
Email: getinfo@lktlabs.com
Web: lktlabs.com

Product Information

Product ID F7444

CAS No. 322455-70-9

Chemical Name (R,S)-Pam2Cys-Gly-Asp-Pro-Lys-His-Pro-Lys-Ser-Phe-OH

Synonym Fibroblast-stimulating Lipopeptide, Pam2CGDPKHPKSF, (R,S)-Pam2Cys-Gly-Asp-Pro-Lys-His-Pro-Lys-Ser-Phe-OH

Formula C₈₄H₁₄₀N₁₄O₁₈S

Formula Wt. 1666.2

Melting Point

Purity ≥98%

Solubility Soluble in water (10mg/ml).
Use a homogeniser or sonicator to prepare a homogenous solution.

Store Temp -20° C

Ship Temp Ambient

Description FSL-1 is an agonist at toll-like receptors (TLR 2/6) that exhibits immunostimulatory, pro-inflammatory, and anticancer activities. FSL-1 increases IgE and IgA responses to foods during systemic antigenic challenge. In vitro, this compound increases expression and activity of MMP-9, IL-6, IL-9, and COX-2. FSL-1 is also used as an adjuvant, in which it induces a Th2-specific response by increasing IgA and IgG levels. FSL-1 also increases tumor size when given alone, but if combined with tumor-specific antigens, decreases tumor size by stimulating production of antigen-specific cytotoxic T lymphocytes, antibodies, and NK cells.

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Bulk quantities available upon request

Product ID	Size
F7444	100 µg

References Tunis MC, Dawod B, Carson KR, et al. Toll-like receptor 2 activators modulate oral tolerance in mice. Clin Exp Allergy. 2015 Aug 4. [Epub ahead of print]. PMID: 26242919.

Lim R, Barker G, Lappas M. The TLR2 ligand FSL-1 and the TLR5 ligand Flagellin mediate pro-inflammatory and pro-labour response via MyD88/TRAF6/NF-κB-dependent signalling. Am J Reprod Immunol. 2014 May;71(5):401-17. PMID: 24635133.

Buffa V, Klein K, Fischetti L, et al. Evaluation of TLR agonists as potential mucosal adjuvants for HIV gp140 and tetanus toxoid in mice. PLoS One. 2012;7(12):e50529. PMID: 23272062.

Kiura K, Hasebe A, Saeki A, et al. In vivo anti- and pro-tumour activities of the TLR2 ligand FSL-1. Immunobiology. 2011 Aug;216(8):891-900. PMID: 21496943.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.