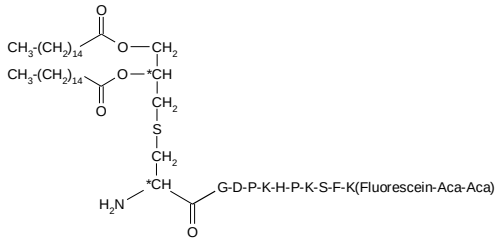
Product Information
FSL-1-Fluorescein

For Research Purposes only. Not for use in Humans

Product	L7031
Chemical name	S-[2,3-bis(palmitoyloxy)-(2*RS*)-propyl]-(*R*)-cysteinyl-GDPKHPKSFK(fluoresceinyl-ε-aminocaproyl-ε-aminocaproic acid)
Synonyms	Pam_2Cys-GDPKHPKSFK(Fluorescein-Aca-Aca); Fluorescein-labelled Fibroblast-stimulating Lipopeptide
CAS	Not available
MW / Formula	2379 / $C_{123}H_{184}N_{18}O_{27}S$
Description	 FSL-1-Fluorescein is a selectively labelled analogue of FSL-1 (product code L7000). It is labelled with 5(6)-carboxyfluorescein (5(6)-FAM) via the side chain of an additional C-terminal lysine. Fluorescein has an excitation maximum of 494 nm that closely matches the 488 nm spectral line of the argon-ion laser. The emission maximum is 517 nm. Lipopeptides are valuable tools for basic research in innate and acquired immunity. The synthetic lipopeptide FSL-1 represents the N-terminal sequence of the 44-kDa lipoprotein LP44 of *Mycoplasma salivarium*. It carries two ester bound fatty acids and a free amino terminus. The synthetic lipopeptide FSL-1 is described to elicit cellular responses through TLR2/TLR6 heterodimers which involves downstream NF-κB activation and cytokine release. The water soluble FSL-1 showed high activity when tested for its capability to activate THP-1 cells to produce TNF-α and on HEK293 cells transfected with TLR2 and TLR6 to produce NF-κB.
Packaging Reconstitution Storage	The lipopeptide is provided as a lyophilised, yellow powder without any additives. It can be shipped at room temperature and should be stored at 4°C. FSL-1-Fluorescein can be reconstituted in endotoxin-free water (1 mg/ml stock solution). Through the use of either a homogeniser or sonicator, a homogenous solution or emulsion can be prepared. If you use an ultrasonic bath, take care of the vial labels. For further dilutions water, saline, buffer or media can be used. After reconstitution, the solution should be aliquoted and stored at or below –20°C. Repeated thawing and freezing should be avoided.
Handling	Good laboratory technique should be employed in the safe handling of any lipopeptide product. If you are not fully trained or are unaware of the hazards involved, do not use this compound! Caution: Do not take internally! Avoid contact by all modes of exposure. Wear appropriate laboratory attire including a lab coat, gloves, mask and safety glasses. Do not mouth pipette, inhale, ingest or allow to come into contact with open wounds. Wash thoroughly any area of the body which comes into contact with the product. Avoid accidental autoinoculation by exercising extreme care when handling in conjunction with any injection device. This product is intended for research purposes by qualified personnel only. It is not intended for use in humans or as a diagnostic agent. EMC microcollections GmbH is not liable for any damages resulting from misuse or handling of this product.

References

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