

Product Information

FSL-1-Rhodamine

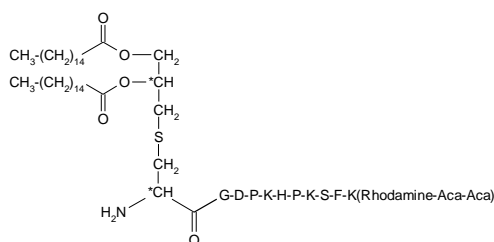
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Product	L7032
Chemical name	S-[2,3-bis(palmitoyloxy)-(2RS)-propyl]-(R)-cysteinyl-GDPKHPKSFK(rhodaminyl-ε-aminocaproyl-ε-aminocaproic acid)
Synonyms	Pam ₂ Cys-GDPKHPKSFK(Rhodamine-Aca-Aca); Rhodamine-labelled Fibroblast-stimulating Lipopeptide
CAS	Not available

MW / Formula 2433 / C₁₂₇H₁₉₄N₂₀O₂₅S

Description



FSL-1-Rhodamine is a selectively labelled analogue of FSL-1 (product code L7000). It is labelled with 5(6)-tetramethylcarboxyrhodamine (TAMRA) via the side chain of the C-terminal lysine. TAMRA has an excitation maximum of 552 nm and an emission maximum of 575 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, pink powder without any additives. It can be shipped at room temperature and should be stored at 4°C.

FSL-1-Rhodamine 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 coming 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.

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References

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