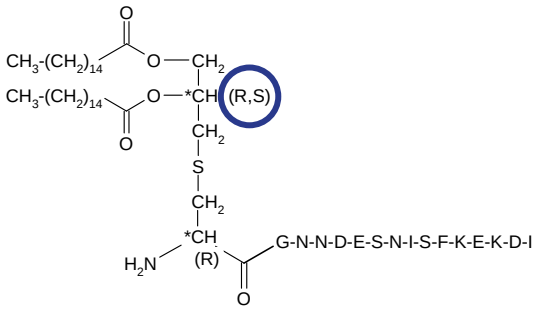
Product Information
MALP-2-DI

For Research Purposes only. Not for use in Humans

Product	L6050
Chemical name	S-[2,3-bis(palmitoyloxy)-(2*RS*)-propyl]-(*R*)-cysteinyl-GNNDESNISFKEKDI
Synonyms	Pam_2Cys-GNNDESNISFKEKDI
CAS	Not available
MW / Formula	2364 / $C_{109}H_{183}N_{21}O_{34}S$
Vial content	100 µg

Improved MALP-2

Description



Lipopeptides are valuable tools for basic research in innate and acquired immunity. Like MALP-2 (Pam_2Cys-GNNDESNISFKEK), the synthetic lipopeptide MALP-2-DI represents the N-terminal sequence of the mature macrophage activating lipoprotein 404 isolated from mycoplasma. Diacylated Pam_2Cys lipopeptides are described to interact with Toll-like receptor 2 and 6 on mammalian cells and 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. Due to its **improved physicochemical properties** compared to MALP-2, MALP-2-DI can be used without any additives or detergents.
MALP-2-DI is manufactured in reproducible high quality. It is a mixture of *RR* and *RS* stereoisomers.

Packaging
Reconstitution
Storage

The lipopeptide is provided as a lyophilised, colourless powder without any additives. It can be shipped at room temperature and should be stored at 4°C.
MALP-2-DI can be reconstituted in DMSO (10 mg/ml stock solution). It can be further diluted with endotoxin-free water. 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. Depending on the sensitivity of the *in vitro* assay, the recommended working concentration for specific stimulation of innate immunity via TLR2/TLR6 heterodimers is 10 – 100 nM (0.015 – 0.15 µg/ml).
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.

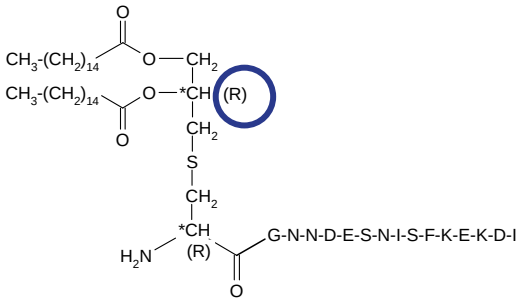
Product Information
R-MALP-2-DI

For Research Purposes only. Not for use in Humans

Product	L6060
Chemical name	S-[2,3-bis(palmitoyloxy)-(2***R***)-propyl]-(*R*)-cysteinyl-GNNDESNISFKEKDI
Synonyms	Pam_2Cys-GNNDESNISFKEKDI
CAS	Not available
MW / Formula	2364 / $C_{109}H_{183}N_{21}O_{34}S$
Vial content	100 µg

Improved R-MALP-2

Description



Lipopeptides are valuable tools for basic research in innate and acquired immunity. Like MALP-2 (Pam_2Cys-GNNDESNISFKEK), the synthetic lipopeptide MALP-2-DI represents the N-terminal sequence of the mature macrophage activating lipoprotein 404 isolated from mycoplasma. Diacylated Pam_2Cys lipopeptides are described to interact with Toll-like receptor 2 and 6 on mammalian cells and 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. Due to its **improved physicochemical properties** compared to MALP-2, MALP-2-DI can be used without any additives or detergents.
R-MALP-2-DI is manufactured in reproducible high quality. It is the defined *RR* stereoisomer.

Packaging
Reconstitution
Storage

The lipopeptide is provided as a lyophilised, colourless powder without any additives. It can be shipped at room temperature and should be stored at 4°C.
MALP-2-DI can be reconstituted in DMSO (10 mg/ml stock solution). It can be further diluted with endotoxin-free water. 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. Depending on the sensitivity of the *in vitro* assay, the recommended working concentration for specific stimulation of innate immunity via TLR2/TLR6 heterodimers is 10 – 100 nM (0.015 – 0.15 µg/ml).
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.