MALP-2

Activator of the TLR2/TLR6 complex.

MALP-2 was originally isolated from *Mycoplasma fermentans*. This MALP-2 corresponds to the originally isolated isomer, which expresses potent endotoxin-like activity and approaches in certain experimental systems the toxicity of LPS. For description of the stereochemistry of MALP-2 please refer to M. Morr, et al. Eur. J. Immunol. 32, 3337 (2002). The importance of the stereochemistry of the central carbon atom of the diacylglycerol group has been described in the K.M. Omueti, et al. paper (2005), see below. MALP-2 signaling, unlike that of LPS, is not transduced via TLR4, but is induced via TLR2 and TLR6 signaling. For more information about MALP-2 see www.malp-research.de.

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ALX-162-027-C050	50µg

Manuals, SDS & CofA View Online »

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended. Stable for at least 2 years when stored at -20°C.
Handling	Avoid accidental injection, extreme care should be taken with hypodermic syringes. Avoid inhalation and prevent this compound from entering the bloodstream. Avoid freeze/thaw cycles.
Short Term Storage	-20°C
Long Term Storage	-80°C
Shipping	Blue Ice

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	Macrophage-activating lipopeptide-2, S-[2,3-bis(Palmityloxy)-(2R)-propyl-cysteinyl-GNNDESNISFKEK]
Concentration	0.1mg/ml
Formula	$C_{99}H_{167}N_{19}O_{30}S$
Formulation	Liquid. Sterile solution in PBS containing 2.5% (v/v) 2-propanol, 25mM n-octyl-β-D-glucopyranoside and 1% (wt/v) human serum albumin.
MW	2135.2
Quantity	1×10^{7}units.
Source	Synthetic.

Technical Info / Product Notes

MALP-2 sticks avidly to glass or plastic. Since it is active at very low concentrations, i.e. at high dilutions, these low amounts of material tend to become adsorbed to pipette tips and plastic or glass containers. To avoid this, prepare several dilution steps of the MALP-2 stock solution with medium containing 5% autologous serum or buffers with 2% HSA. The presence of 50mM octyl glucoside in the first dilution step is often beneficial and gives rise to higher activity. Avoid small volumes in large vessels. Do not filter.Because of the ester-bound fatty acids, MALP-2 is sensitive to alkali or acid. The medium should be preconditioned in the CO_2 incubator in order to ensure that the pH does not become alkaline. Add cells in preconditioned medium as soon as possible and incubate.

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