

Product Datasheet

MALP-2, TLR6 and TLR2 ligand NBP2-26219-2ug

Unit Size: 2 ug

Store at -20C. Avoid freeze-thaw cycles.

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Publications: 5

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NBP2-26219-2ug

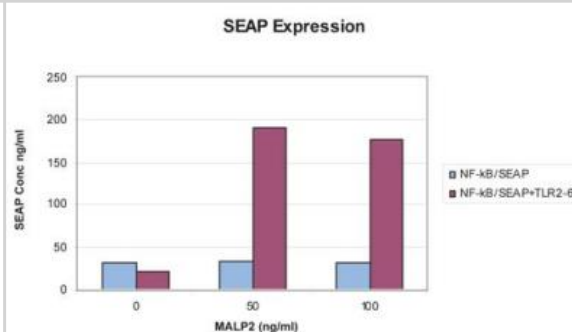
MALP-2, TLR6 and TLR2 ligand

| Product Information | |
|------------------------------------|---|
| Unit Size | 2 ug |
| Concentration | Please see the protocols for proper use of this product. If no protocol is available, contact technical services for assistance. |
| Storage | Store at -20C. Avoid freeze-thaw cycles. |
| Buffer | 2 ug in 20 ul of sterile PBS solution containing 2.5% (v/v) 2-propanol, 25 mM n-octyl-b-D-glucopyranoside and 1% (wt/v) human serum albumin. |
| Product Description | |
| Species | Human, Mouse |
| Species Reactivity | Human reactivity reported in scientific literature (PMID: 24771854). Mouse reactivity reported in scientific literature (PMID: 25466255) |
| Specificity/Sensitivity | 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. Formula: C99H167N19O30S |
| Immunogen | MALP-2, TLR6 and TLR2 ligand |
| Details of Functionality | Specific Activity is approx 2×10^8 units/mg. One unit is defined as the dilution giving half maximal release of nitric oxide from C3H/HeJ mouse peritoneal exudate cells in the standard assay. |
| Product Application Details | |
| Applications | Functional, In vitro assay |
| Recommended Dilutions | Functional, In vitro assay |
| Application Notes | Source: Synthetic Formula: C99H167N19O30S MW: 2135.2 Use in In- vitro assay and functional reported in scientific literature (PMID 25466255) |

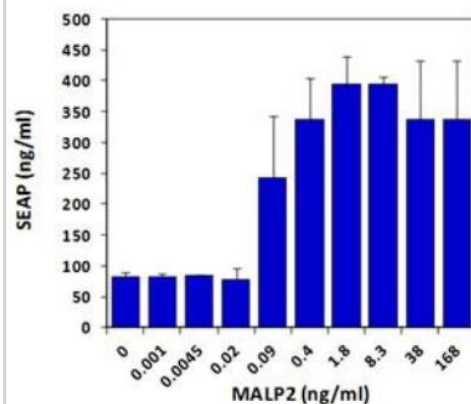


Images

MALP-2, TLR6 and TLR2 ligand [NBP2-26219] - 293 cells were transfected with pCMV/TLR2-6 plasmid and pNF-kB/SEAP plasmid using Lipofectamin 2000. After 48 hrs of transfection, 50 and 100 ng/ml of MALP2 as added. Cells were incubated at 37C for 24 hrs. Transfected cell supernatant was collected and analyzed using the NF-kB SEAPorter Assay kit.



MALP-2, TLR6 and TLR2 ligand [NBP2-26219] - Evaluation of the MALP2 ligand activity on TLR2/NF-kB SEAPorter HEK 293 cell line. Cell line is a stably co-transfected cell line that expresses full-length human Toll-like receptor 2 (TLR2) and the secreted alkaline phosphatase (SEAP) reporter gene under the transcriptional control of an NF-kB response element. Cells were plated in 96-well plates at 5×10^4 cells/well. After 16 h, cells were stimulated with various amounts of MALP2 for 24 h. SEAP was analyzed using the SEAPorter Assay Kit. Data Summary: MALP2 specifically activated the TLR2/6-dependent NF-kB/SEAP reporter cells in a dose dependent manner (Note: HEK 293 cells endogenously express TLR6).



Publications

Godefroy E, Gallois A, Idoyaga J et al. Activation of Toll-like Receptor-2 by Endogenous Matrix Metalloproteinase-2 Modulates Dendritic-Cell-Mediated Inflammatory Responses. *Cell Rep.* 2014 Dec 11 [PMID: 25466255] (In-vitro, Func, Mouse)

Koziel J, Bryzek D, Sroka A et al. Citrullination Alters Immunomodulatory Function of LL-37 Essential for Prevention of Endotoxin-Induced Sepsis. *J. Immunol.* 2014 Jun 01 [PMID: 24771854] (LA, Human)

Details:

Human monocyte-derived macrophages stimulated with 10 ng/ml of MALP-2, Fig 7a.

Kusagaya H, Fujisawa T, Yamanaka K et al. Toll-like receptor-mediated airway IL-17C enhances epithelial host defense in an autocrine/paracrine manner. *Am. J. Respir. Cell Mol. Biol.* 2014 Jan 1 [PMID: 23944933] (In vitro, Human)

Details:

TLR ligand treatment (primary normal human bronchial epithelial cells), Figs 1, S1. CpG-ODN was used at 10 ug/ml.

Gillaux C, Mehats C, Vaiman D et al. Functional screening of TLRs in human amniotic epithelial cells. *J Immunol.* 2011 Sep 1 [PMID: 21775685]

Kempaiah P, Davidson LB, Perkins DJ, Byrd TF. Cystic fibrosis CFBE41o- cells contain TLR1 SNP I602S and fail to respond to *Mycobacterium abscessus*. *J Cyst Fibros.* 2013 Feb 8 [PMID: 23403223]



Novus Biologicals USA

8100 Southpark Way, A-8
Littleton, CO 80120
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
novus@novusbio.com

Novus Biologicals Canada

461 North Service Road West, Unit B37
Oakville, ON L6M 2V5
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada@novusbio.com

Novus Biologicals Europe

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: technical@novusbio.com
Orders: orders@novusbio.com
General: novus@novusbio.com

Limitations

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