## **Product Datasheet**

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

Unit Size: 2 ug

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



**Reviews: 1** Publications: 19

Protocols, Publications, Related Products, Reviews, Research Tools and Images at: www.novusbio.com/NBP2-26219

Updated 10/23/2024 v.20.1

# Earn rewards for product reviews and publications.

Submit a publication at www.novusbio.com/publications Submit a review at www.novusbio.com/reviews/destination/NBP2-26219



#### 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	
Description	Disclaimer Note -Disclaimer Note - Human Serum- No test method can provide total assurance that the hepatitis B virus, hepatitis C virus, human immunodeficiency virus, or any other infectious agents are absent. Thus, all blood products, including purified proteins derived from human blood sources, should be handled at Biosafety Level 2 as recommended by the CDC\NIH manual entitled Biosafety in Microbiological and Biomedical Laboratories for potentially infectious human serum, blood specimens or proteins derived from same. Source material for the human blood product supplied to your facility has been tested for the detection of HIV antibody, Hepatitis B surface antigen, antibody to Hepatitis C, HIV 1 antigen(s), antibody to HTLV - I/II, and syphilis by FDA guidelines. All units were found to be non-reactive/negative for these tests. All human blood source material is collected in FDA licensed centers and is tested with FDA approved test kits. Human Serum- No test method can provide total assurance that the hepatitis B virus, hepatitis C virus, human immunodeficiency virus, or any other infectious agents are absent. Thus, all blood products, including purified proteins derived from human blood sources, should be handled at Biosafety Level 2 as recommended by the CDC\NIH manual entitled Biosafety in Microbiological and Biomedical Laboratories for potentially infectious human serum, blood specimens or proteins derived from same. Source material for the human blood product supplied to your facility has been tested for the detection of HIV antibody, Hepatitis B surface antigen, antibody to Hepatitis C, HIV 1 antigen(s), antibody to HTLV - I/II, and syphilis by FDA guidelines. All units were found to be non-reactive/negative for these tests.
Species	Non-species specific
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 2x10^8units/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
<b>Recommended Dilutions</b>	Functional, In vitro assay



	с ,
Application Notes	Source: Synthetic Formula: C99H167N19O30S MW: 2135.2 Use in In-vitro and functional assay reported in scientific literature (PMID: 25466255).

#### Images



www.novusbio.com



#### **Publications**

Liu Y, Diamond SL. Activation of Most Toll-Like Receptors in Whole Human Blood Attenuates Platelet Deposition on Collagen under Flow Journal of Immunology Research 2023-01-17 [PMID: 36703865] (Block/Neutralize)

Calses PC, Pham VC, Guarnaccia AD et al. TEAD Proteins Associate With DNA Repair Proteins to Facilitate Cellular Recovery From DNA Damage Molecular & Cellular Proteomics 2023-02-01 [PMID: 36640924] (Immunoprecipitation, Western Blot, Immunocytochemistry/ Immunofluorescence)

Gasiorek A, Dobosz E, Potempa B Et Al. Subversion of Lipopolysaccharide Signaling in Gingival Keratinocytes via MCPIP-1 Degradation as a Novel Pathogenic Strategy of Inflammophilic Pathobionts mBio 2021-06-29 [PMID: 34182783]

Nogiec A, Bzowska M, Demczuk A Phenotype and Response to PAMPs of Human Monocyte-Derived Foam Cells Obtained by Long-Term Culture in the Presence of oxLDLs Front Immunol 2020-08-04 [PMID: 32849539] (Bacteria)

Maruyama K, Kidoya H, Takemura N et al. Zinc Finger Protein St18 Protects against Septic Death by Inhibiting VEGF-A from Macrophages Cell Rep 2020-07-14 [PMID: 32668247]

Kanoh H, Nitta T, Go S et al. Homeostatic and pathogenic roles of GM3 ganglioside molecular species in TLR4 signaling in obesity EMBO J. 2020-05-07 [PMID: 32378734] (Mouse)

Bi J, Koivisto L, Pang A et al. Suppression of alphavB6 Integrin Expression by Polymicrobial Oral Biofilms in Gingival Epithelial Cells Sci Rep 2017-06-30 [PMID: 28667248] (In vitro, Human)

Battin C, Hennig A, Mayrhofer P et al. A human monocytic NF-kB fluorescent reporter cell line for detection of microbial contaminants in biological samples. PLoS ONE 2017-05-25 [PMID: 28542462] (FLOW, Human)

Yanai S, Tokuhara D, Tachibana D et al. Diabetic pregnancy activates the innate immune response through TLR5 or TLR1/2 on neonatal monocyte J. Reprod. Immunol. 2016-06-22 [PMID: 27351455] (In vitro, Human)

Sigola LB, Fuentes AL, Millis LM et al. Effects of toll-Like receptor ligands on RAW 264.7 macrophage morphology and zymosan phagocytosis. Tissue and Cell. 2016-04-22 [PMID: 27157550] (Func, Mouse)

Heidegger S, Jarosch A, Schmickl M et al. Mycoplasma hyorhinis-Contaminated Cell Lines Activate Primary Innate Immune Cells via a Protease-Sensitive Factor. PLoS ONE. 2015-11-14 [PMID: 26565413] (Func, In vitro, Mouse)

Details:

MALP-2 (TLR6 and TLR2 ligand) was used at 500 ng/ml concentration for functional assays involving murine B16-F10 (B16) melanoma cell line.

Chen J, Ng MM, Chu JJ. Activation of TLR2 and TLR6 by Dengue NS1 Protein and Its Implications in the Immunopathogenesis of Dengue Virus Infection. PLoS Pathog. 2015-07-01 [PMID: 26226614] (Func, Human)

Details:

MALP-2, TLR6 and TLR2 ligand was used at 50 ng/ml concentration (alongwith mock or Dengue Virus DV2-infection and LPS) for treatments of human PBMCs, HEK293 and wild-type or TLR6-/- murine peritoneal macrophages under various experimental conditions.

More publications at <a href="http://www.novusbio.com/NBP2-26219">http://www.novusbio.com/NBP2-26219</a>





#### Novus Biologicals USA

10730 E. Briarwood Avenue Centennial, CO 80112 USA Phone: 303.730.1950 Toll Free: 1.888.506.6887 Fax: 303.730.1966 nb-customerservice@bio-techne.com

#### **Bio-Techne Canada**

21 Canmotor Ave Toronto, ON M8Z 4E6 Canada Phone: 905.827.6400 Toll Free: 855.668.8722 Fax: 905.827.6402 canada.inquires@bio-techne.com

#### **Bio-Techne Ltd**

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.EMEA@bio-techne.com

#### **General Contact Information**

www.novusbio.com Technical Support: nb-technical@biotechne.com Orders: nb-customerservice@bio-techne.com General: novus@novusbio.com

#### Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Support products are guaranteed for 6 months from date of receipt.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/NBP2-26219

Earn gift cards/discounts by submitting a publication using this product: www.novusbio.com/publications

www.novusbio.com

