Product Datasheet

Zymosan, TLR2 Ligand NBP2-26233

Unit Size: 200 mg

Store at -20C in powder form. Store at -80C once reconstituted.

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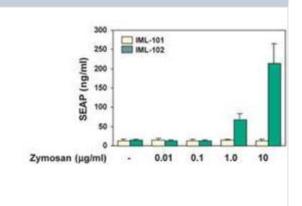
NBP2-26233

Zymosan, TLR2 Ligand **Product Information**

of this product. If no protocol is assistance. 80C once reconstituted.
assistance.
80C once reconstituted.
ix 50mg Zymosan with 1ml ethanol in a For further dilution, use sterilized solution is insoluble and remains
that is composed of b-glucans, mannans, a known activator of TLR2, of which are synergistically generated by NF-kB-induced inflammatory cytokine is also known to directly bind TLR2. Zymosan activated the TLR2 cells but
terature (PMID: 25957979)
ro assay, In vivo assay, Ligand Activation
ientific literature (PMID 27351455), In e (PMID 25846753), Ligand Activation (957979), Functional (Inhibition) reported
foll-like Receptor 2 (TLR2).Stimulation of nl. Note: TLR2 activation at this range of en observed in our product validation
t t

Images

Zymosan, TLR2 Ligand [NBP2-26233] - Ligand activity of Zymosan. The NF-kB/SEAPorter/HEK 293 and TLR2/NFkB/SEAPorter/ HEK 293 cell line cell lines were plated in a 96-well plate at 5 x 10^4 cells/well for 16 h. Cells were then stimulated with Zymosan for 24h. The cell culture supernatants were analyzed for SEAP activity using SEAPorter Assay Kit.



Publications

Kartikasari N, Yamada M, Watanabe J et al. Titania nanospikes activate macrophage phagocytosis by ligand-independent contact stimulation Scientific reports 2022-07-18 [PMID: 35851278]

Hikita, N;Cho, Y;Tachibana, D;Hamazaki, T;Koyama, M;Tokuhara, D; Cell surface antigens of neonatal monocytes are selectively impaired in basal expression, but hyperresponsive to lipopolysaccharide and zymosan Journal of Reproductive Immunology 2019-09-01 [PMID: 31606697] (Func, Human)

Yamaguchi M, Hirose Y, Takemura M, et al Streptococcus pneumoniae Evades Host Cell Phagocytosis and Limits Host Mortality Through Its Cell Wall Anchoring Protein PfbA. Front Cell Infect Microbiol. 2019-08-20 [PMID: 31482074] (Bacteria)

Details:

Mice were infected with S. pneumoniae.

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)

Nohmi K, Tokuhara D, Tachibana D et al. Zymosan Induces Immune Responses Comparable with Those of Adults in Monocytes, Dendritic Cells, and Monocyte-Derived Dendritic Cells from Cord Blood. J. Pediatr. 2015-05-06 [PMID: 25957979] (LA, In vitro, Func, Human)

Details:

Zymosan, TLR2 ligand (Imgenex IMG-2212) was used for in-vitro stimulation experiments involving human heparinized cord or adult blood Monocytes, peripheral blood dendritic cells (DCs) and monocyte-derived DCs (MoDCs). Zymosan was employed at 1 ug/mL concentration on Monocytes as well as on MoDCs and at 0.5 ug/mL on DCs. See full text for experimental details and results.

Farnebo L, Shahangian A, Lee Y et al. Targeting Toll-like receptor 2 inhibits growth of head and neck squamous cell carcinoma Oncotarget 2015-04-02 [PMID: 25846753] (In-vivo, Func)





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