Nucleotide-Binding Oligomerization Domain-Containing Protein 2 (NOD2) Hylobates Lar Recombinant Protein

PRODUCT OVERVIEW

Product Name	Nucleotide-binding oligomerization domain-containing protein 2 (NOD2), Recombinant Protein
Full Product Name	Recombinant Hylobates lar Nucleotide-binding oligomerization domain-containing protein 2 (NOD2), partial
Product Gene Name	NOD2 recombinant protein
Product Synonym Gene Name	NOD2
Sequence	HLRRPVALQL DYNSVGDIGV EQLLPCLGVC KALYLRDNNI SDRGICKLIE CALHCEQLQK LVLFNNKLTD GCAHSMAKLL ACRQNFLALR LGNNHITPAG AQVLAEGLRG NTSLQFLGFW GNRVGDEGAQ ALAEALGDHQ SLRWLSLVGN NIGSVGAQAL ALMLAKNVML EELCLEENHI QDEGVCSLAE GLKKNSSLKI LKLSNNCITY LGAKALLQAL ERNDTILEVW LRGNIFSLEE VDKLGCRDIR LLL
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	115,262 Da
Sequence Positions	788-1040. Partial,include LRR Region
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q53B88
Species	Hylobates lar (Common gibbon)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for NOD2 recombinant protein	MBS1420738 is a recombinant protein targeting NOD2. Also known as Recombinant Hylobates lar Nucleotide-binding oligomerization domain-containing protein 2 (NOD2), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of NOD2 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NOD2. It may not necessarily be applicable to this product.

NCBI GI #	68565101
NCBI Accession #	Q53B88.1
UniProt Primary Accession #	Q53B88
NCBI Official Full Name	Nucleotide-binding oligomerization domain-containing protein 2

UniProt Protein Name	Nucleotide-binding oligomerization domain-containing protein 2
UniProt Synonym Protein Names	Caspase recruitment domain-containing protein 15
Protein Family	Nucleotide-binding oligomerization domain-containing protein
UniProt Gene Name	NOD2
UniProt Synonym Gene Names	CARD15
UniProt Comments for NOD2	Involved in gastrointestinal immunity. Upon stimulation by muramyl dipeptide (MDP), a fragment of bacterial peptidoglycan, binds the proximal adapter receptor-interacting RIPK2, which recruits ubiquitin ligases as XIAP, BIRC2, BIRC3, INAVA and the LUBAC complex, triggering activation of MAP kinases and activation of NF-kappa-B signaling. This in turn leads to the transcriptional activation of hundreds of genes involved in immune response. Required for MDP-induced NLRP1-dependent CASP1 activation and IL1B release in macrophages. Component of an autophagy-mediated antibacterial pathway together with ATG16L1. Plays also a role in sensing single-stranded RNA (ssRNA) from viruses. Interacts with mitochondrial antiviral signaling/MAVS, leading to activation of interferon regulatory factor-3/IRF3 and expression of type I interferon.
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