

NOD2 Protein, Bovine, Recombinant (His & KSI)

General Information

Synonyms:	Caspase recruitment domain-containing protein 15;CARD15;Nucleotide-binding oligomerization domain-containing protein 2;NOD2
Protein Construction:	1-191 aa
Species:	Bovine
Expression Host:	E. coli
Accession:	Q6E804
Molecular Weight:	36.8 kDa (predicted)
AA Sequence:	MCAQDAFQTQRSQVLVSGSLEGFESILDRLLSREVLSWEDYEGLSLVGQPISHLARRLLDTIWNKGTWGC EQLTAAVREAQADSQPPELPSWDPHSPHPARDLQSHRPAIVRRLYGHVEGVLDLTQQRGFISQYETDEIRR PIFTSSQRARRLLDLATVKANGLAAFLQCIQELPVPLALPFEDAA

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

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,

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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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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