

Datasheet for ABIN7562968

MYD88 Protein (AA 1-296) (His tag)



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Overview

Quantity:	1 mg
Target:	MYD88
Protein Characteristics:	AA 1-296
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MYD88 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Myd88 Protein expressed in mammalian cells.
Sequence:	<p>MSAGDPRVGS GSLDSFMFSI PLVALNVGVR RRLSLFLNPR TPVAADWTLL AEEMGFEYLE IRELETRPDP TRSLDDAWQG RSGASVGRLL ELLALLDRED ILKELKSRIE EDCQKYLKQ QNQESEKPLQ VARVESSVPQ TKELGGITTL DDPLGQTPEL FDAFICYCPN DIEFVQEMIR QLEQTDYRLK LCVSDRDVLP GTCVWSIASE LIEKRCRRMV VVSDDYLS KECDFQTKFA LSLSPGVQK RLIPIKYKAM KKDFPSILRF ITICDYTNPC TKSFWWTRLA KALSLP</p> <p>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</p>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits:

Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	MYD88
Alternative Name:	Myd88 (MYD88 Products)
Background:	<p>Myeloid differentiation primary response protein MyD88,FUNCTION: Adapter protein involved in the Toll-like receptor and IL-1 receptor signaling pathway in the innate immune response (PubMed:9697844). Acts via IRAK1, IRAK2, IRF7 and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response (PubMed:9575168, PubMed:9697844). Increases IL-8 transcription. Involved in IL-18-mediated signaling pathway (PubMed:9697844). Activates IRF1 resulting in its rapid migration into the nucleus to mediate an efficient induction of IFN-beta, NOS2/INOS, and IL12A genes (PubMed:17018642). Upon TLR8 activation by GU-rich single-stranded RNA (GU-rich RNA) derived from viruses, induces IL1B release through NLRP3 inflammasome activation (By similarity). MyD88-mediated signaling in intestinal epithelial cells is crucial for maintenance of gut homeostasis and controls the expression of the antimicrobial lectin REG3G in the small intestine (PubMed:17635956, PubMed:21998396). Mediates leukocyte recruitment at the inflammatory site (PubMed:18941239).</p> <p>{ECO:0000250 UniProtKB:Q99836, ECO:0000269 PubMed:11909531, ECO:0000269 PubMed:17018642, ECO:0000269 PubMed:17635956,</p>

Target Details

	ECO:0000269 PubMed:18941239, ECO:0000269 PubMed:21998396, ECO:0000269 PubMed:9575168, ECO:0000269 PubMed:9697844}., FUNCTION: [Isoform 2]: Defective in its ability to induce IRAK phosphorylation and NF-kappa-B activation and can function as a negative regulator of activation by IL-1 or lipopolysaccharide (LPS). {ECO:0000269 PubMed:11909531}.
Molecular Weight:	33.8 kDa
UniProt:	P22366
Pathways:	NF-kappaB Signaling , TLR Signaling , Neurotrophin Signaling Pathway , Activation of Innate immune Response , Cellular Response to Molecule of Bacterial Origin , Positive Regulation of Immune Effector Process , Production of Molecular Mediator of Immune Response , Toll-Like Receptors Cascades

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months