

[Go to Product page](#)

Datasheet for ABIN7549630  
**MYD88 Protein (AA 1-296) (His tag)**

## Overview

Quantity:	1 mg
Target:	MYD88
Protein Characteristics:	AA 1-296
Origin:	Human
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:	MAAGGPGAGS AAPVSSTSSL PLAALNMRVR RRLSLFLNVR TQVAADWTAL AEEMDFEYLE IRQLETQADP TGRLLDAWQG RPGASVGRLL ELLTKLGRDD VLLELGPSIE EDCQKYILKQ QQEEAEKPLQ VAAVDSSVPR TAELAGITTL DDPLGHMPER FDAFICYCPS DIQFVQEMIR QLEQTNYRLK LCVSDRDVLP GTCVWSIASE LIEKRCRRMV VVSDDYLQS KECDFQTKFA LSLSPGAHQK RLIPIKYKAM KKEFPSILRF ITVCDYTNPC TKSFWWTRLA KALSLP <b>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.</b>
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

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- 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.

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

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Target:	MYD88
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Alternative Name:	MYD88 ( <a href="#">MYD88 Products</a> )
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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:15361868, PubMed:18292575, PubMed:33718825). Acts via IRAK1, IRAK2, IRF7 and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response (PubMed:15361868, PubMed:24316379, PubMed:19506249). Increases IL-8 transcription (PubMed:9013863). Involved in IL-18-mediated signaling pathway. Activates IRF1 resulting in its rapid migration into the nucleus to mediate an efficient induction of IFN-beta, NOS2/INOS, and IL12A genes. Upon TLR8 activation by GU-rich single-stranded RNA (GU-rich RNA) derived from viruses such as SARS-CoV-2, SARS-CoV and HIV-1, induces IL1B release through NLRP3 inflammasome activation (PubMed:33718825). 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 (By similarity).</p>
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{ECO:0000250|UniProtKB:P22366, ECO:0000269|PubMed:15361868,

ECO:0000269|PubMed:18292575, ECO:0000269|PubMed:19506249,

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## Target Details

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ECO:0000269|PubMed:20855887, ECO:0000269|PubMed:24316379,  
ECO:0000269|PubMed:33718825, ECO:0000269|PubMed:9013863}.

Molecular Weight: 33.2 kDa

UniProt: [Q99836](#)

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

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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

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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