

Recombinant Mouse Myd88 Protein, MYC/DDK-tagged

Cat. No. Myd88-001M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Mouse myeloid differentiation primary response gene 88 (Myd88), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Adapter protein involved in the Toll-like receptor and IL-1 receptor signaling pathway in the innate immune response. Acts via IRAK1, IRAK2, IRF7 and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response. Increases IL-8 transcription. Involved in IL-18-mediated signaling pathway. Isoform 2 is 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). Activates IRF1 resulting in its rapid migration into the nucleus to mediate an efficient induction of IFN-beta, NOS2/INOS, and IL12A genes. 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. Mediates leukocyte recruitment at the inflammatory site.
Molecular Mass	34.2 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Myd88 myeloid differentiation primary response gene 88 [Mus musculus (house mouse)]
Official Symbol	Myd88
Synonyms	Myd88; myeloid differentiation primary response gene 88; myeloid differentiation primary response protein MyD88; myeloid differentiation primary response protein 88
Gene ID	17874
mRNA Refseq	NM_010851
Protein Refseq	NP_034981
UniProt ID	P22366

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