

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

## GENE INFORMATION

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

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