

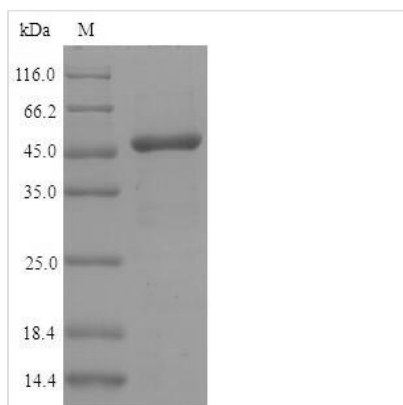


# Recombinant Mouse Interferon regulatory factor 3 (Irf3)

<b>Product Code</b>	CSB-YP011818MO
<b>Relevance</b>	Key transcriptional regulator of type I interferon (IFN)-dependent immune responses which plays a critical role in the innate immune response against DNA and RNA viruses. Regulates the transcription of type I IFN genes (IFN-alpha and IFN-beta) and IFN-stimulated genes (ISG) by binding to an interferon-stimulated response element (ISRE) in their promoters. Acts as a more potent activator of the IFN-beta (IFNB) gene than the IFN-alpha (IFNA) gene and plays a critical role in both the early and late phases of the IFNA/B gene induction. Found in an inactive form in the cytoplasm of uninfected cells and following viral infection, double-stranded RNA (dsRNA), or toll-like receptor (TLR) signaling, is phosphorylated by IKBKE and TBK1 kinases. This induces a conformational change, leading to its dimerization and nuclear localization and association with CREB binding protein (CREBBP) to form dsRNA-activated factor 1 (DRAF1), a complex which activates the transcription of the type I IFN and ISG genes. Can activate distinct gene expression programs in macrophages and can induce significant apoptosis in primary macrophages.
<b>Abbreviation</b>	Recombinant Mouse Irf3 protein
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	P70671
<b>Alias</b>	Short name:IRF-3
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Mus musculus (Mouse)
<b>Purity</b>	≥ 90% as determined by SDS-PAGE.
<b>Sequence</b>	METPKPRILPWLVSQDLGQLEGVAWLDESRTFRIPWKHGLRQDAQMADFG IFQAWAEASGAYTPGKDKPDVSTWKRNFERSALNRKEVLRLAADNSKDPYDPH KVYEFVTPGARDFVHLGASPDNTGKSSLPHSQENLPKLFDGLILGPLKDEGSS DLAIVSDPSQQLPSPNVNINFLNPAPQENPLKQLLAEEQWFEVTAFYRGRQVF QQTLFCPGGLRLVGSTADMTLPWQPVTLPDPEGFLTDKLVKEYVGGVVKGLG NGLALWQAGQCLWAQRLGHSHAFWALGEELLPDSGRGPDGEVHKDKDGAV FDLRPFVADLIAFMEGSGHSPRYTLWFCMGEMWPQDQPWVKRLVMVKVPT CLKELLEMAREGGASSLKTVDLHISNSQPISLTSQYKAYLQDLVEDMDFQAT GNI
<b>Research Area</b>	Immunology
<b>Source</b>	Yeast
<b>Target Names</b>	Irf3



<b>Protein Names</b>	Recommended name: Interferon regulatory factor 3 Short name= IRF-3
<b>Expression Region</b>	1-419aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 10xHis-tagged and C-terminal Myc-tagged
<b>Mol. Weight</b>	50.9kDa
<b>Protein Length</b>	Full Length

**Image**


(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

**Shelf Life**

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