

Recombinant Mouse IRF3 Protein (1-419 aa), His-Myc-tagged

Cat. No. IRF3-2146M Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Mouse IRF3 Protein (1-419 aa) is produced by Yeast expression system. This protein is fused with a 10xHis tag at the N-terminal and a Myc tag at the C-terminal. Research Area: Immunology. Protein Description: Full Length.

Species Mouse

Source Yeast

ProteinLength 1-419 aa

Description 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.

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 45-1 Ramsey Road, Shirley, NY 11967, USA

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|-----------------------|---|
| Form | Tris-based buffer,50% glycerol |
| Molecular Mass | 50.9 kDa |
| AA Sequence | METPKPRILPWLVSQDLGQLEGVAWLDESRTFRIPWKHGLRQDAQMADFGIFQAWAEASGAYTPGKDKPDVSTWKRNFERSALNRKEVLRLAADNSKDPYDPHKVYEFVTPGARDFVHLGASPDINGKSSLPHSQENLPKLFDGLILGPKDEGSSDLAIVSDPSQQLPSPNVNNFLNPAPQENPLKQLLAEEQWEFEVTAFYRGRQVFQQTLFCPGLRLVSTADMTLPWQPVTLPDPEGFLTDKLVKEYVGGVQLKGLGNLALWQAGQCLWAQRLGHSHAFWALGEELLPDSGRGPDGEVHKDKDGAVFDLPPFVADLIAFMEGSGHSPRYTLWFCMGEMWPQDQPWVKRLVMVKVPTCLKELLEMAREGGASSLKTVDLHISNSQPISLTSQYKAYLQDLVEDMDFQATGNI |
| Purity | > 90% as determined by SDS-PAGE. |
| Notes | Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week. |
| Storage | 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 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade. |
| Concentration | A hardcopy of COA with reconstitution instruction is sent along with the products. |

GENE INFORMATION

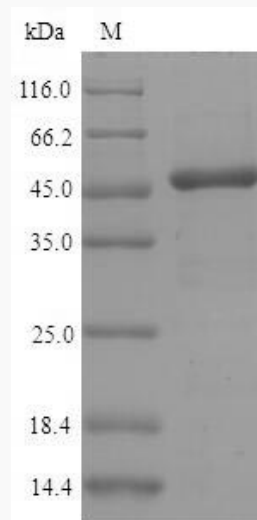
| | |
|------------------------|--|
| Gene Name | Irf3 interferon regulatory factor 3 [Mus musculus] |
| Official Symbol | IRF3 |

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| Synonyms | IRF3; interferon regulatory factor 3; IRF-3; C920001K05Rik; MGC91046; |
| Gene ID | 54131 |
| mRNA Refseq | NM_016849 |
| Protein Refseq | NP_058545 |
| UniProt ID | P70671 |



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

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