9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

IRF 3 Human

IFN Regulatory Factor-3 Human Recombinant
CYK0471

Product Overview

Name	IRF 3 Human
Description	
IFN Regulatory Factor-3 Human Recombinant	
Accession (Primary)	Q14653
Synonyms	
IRF-3, IRF3, IFN Regulatory Factor 3.	
Introduction	
Members of the IFN regulatory factor (IRF) family regulate gene expression critical to immune response, hemopoiesis, and proliferation. IRF-3 is a member of the IRF family, and is distinct from other family members. Its transcriptional activity is regulated solely by posttranslational modifications. It plays a crucial role in activation of innate immunity and inflammation in response to viral infection. IRF-3 mediates IFN-stimulated response element (isre) promoter activation. Functions as a molecular switch for antiviral activity. Dsrna generated during the course of an viral infection leads to IRF3 phosphorylation on the c-terminal serine/threonine cluster. This induces a conformational change, leading to its dimerization, nuclear localization and association with creb binding protein (crebbp) to form dsrna-activated factor 1 (draf1), a complex which activates the transcription of genes under the control of isre. The complex binds to the ie and prdiii regions on the ifn-alpha and ifn-beta promoters respectively. IRF-3 does not have any transcription activation domains.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered colorless solution.	
Formulation	
1mg/ml in phosphate-buffered saline (PBS), pH 7.4.	
Stability	
Liquid IRF3 although stable at 10°C for 1 week, should be stored below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.	
Purity	
Greater than 95.0% as determined by(a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.	

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Amino acid sequence

MGTPKPRILP WLVSQLDLGQ LEGVAWVNKS RTRFRIPWKH GLRQDAQQED FGIFQAWAEA TGAYVPGRDK PDLPTWKRNF RSALNRKEGL RLAEDRSKDP HDPHKIYEFV NS.

Precautions

IRF 3 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q14653)