Active Recombinant Mouse Interferon Alpha 2

Cat. No. Ifna2-88M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Interferon Alpha 2 was expressed in *E. coli* containing amino acids Cys24-Glu190 of mature mouse IFNa2.
Species	Mouse
Source	E.coli
Description	IFN-α2 is a type I interferon, previously known as B-cell interferon, leukocyte interferon, lymphoblast interferon, and pH2-stable interferon. IFN-α2 is one of at least 23 different known variants of IFN-α. The individual proteins have molecular masses between 19-26 kDa and consist of proteins with lengths of 156-166 and 172 amino acids. IFN-α forms are produced by monocytes/macrophages, lymphoblastoid cells, fibroblasts, and a number of different cell types following induction by viruses, nucleic acids, glucocorticoid hormones, and low-molecular weight substances (n-butyrate, 5-bromodeoxyuridine). IFN-α2 demonstrates antiviral, antiparasitic, antiproliferative activities.
Molecular Mass	The protein has a predicted molecular mass of 19,361. The non-reduced protein migrates as a 16 kDa polypeptide on SDS-PAGE. The DTT reduced protein migrates as an 18 kDa polypeptide.
Purity	Greater than 98% as determined by SDS-PAGE.
Form	Sterile liquid; 20 mM sodium phosphate, pH 7.2, 150 mM NaCl, with 0.5% BSA. 0.22

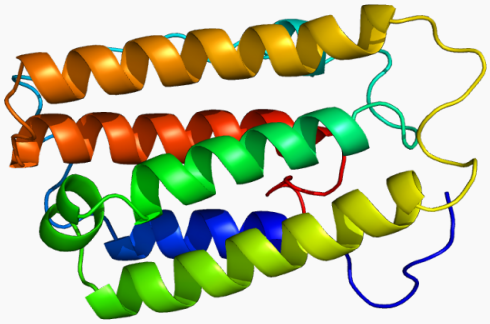
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	μM filtered.
Endotoxin Level	Less than 0.01 ng/ug cytokine as determined by the LAL assay.
Bioactivity	The recombinant mouse IFN-a2 has been tested for inhibition of the cytopathic effect of EMC virus on L929 cells. The ED50 for this effect is typically 0.1 ng/ml, corresponding to a specific activity of 1 x 107 U/mg.
Applications Tested	The recombinant mouse IFN-α2 has been tested for inhibition of the cytopathic effect of EMC virus on L929 cells. The ED50 for this effect is typically 0.1 ng/ml, corresponding to a specific activity of 1 x 107 U/mg.
Temperature Limitation	Store at less than or equal to-70°C.
Handling Conditions	For best recovery, quick-spin vial prior to opening. Use in a sterile environment.

GENE INFORMATION

Gene Name	Ifna2 interferon alpha 2 [Mus musculus]
Synonyms	Ifna2; interferon alpha 2; Ifa2; interferon alpha-2; IFN-alpha-2; OTTMUSP00000012097; interferon alpha family, gene 2
Gene ID	15965
mRNA Refseq	NM_010503
Protein Refseq	NP_034633
UniProt ID	P01573

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Chromosome Location	4 C4; 4 42.6 cM
Pathway	Antigen processing and presentation; Autoimmune thyroid disease; Cytokine-cytokine receptor interaction; Cytosolic DNA-sensing pathway; Jak-STAT signaling pathway; Natural killer cell mediated cytotoxicity; RIG-I-like receptor signaling pathway; Regulation of autophagy; Toll-like receptor signaling pathway
Function	cytokine activity; cytokine receptor binding
PDB rendering based on 1itf.	

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