

Mouse IFN-alpha 2 Recombinant Protein, eBioscience™

Product Details	
Size	25 µg
Species	Mouse
Expression System	E. coli
Amino acid sequence	Mature mouse IFN-alpha 2, amino acids Cys24-Glu190 (Accession # NM_010503)
Molecular weight	19.4 kDa
Class	Recombinant
Type	Protein
Purity	>98% by SDS-PAGE
Endotoxin concentration	<0.01 ng/µg
Activity	ED50 = 0.1 ng/mL; as measured by the inhibition of the cytopathic effect of EMC virus on L929 cells.
Conjugate	Unconjugated
Form	Liquid
Concentration	0.1 mg/mL
Purification	Affinity chromatography
Storage buffer	50mM sodium acetate, pH 5.0, with 0.1M NaCl
Contains	no preservative
Storage conditions	-80°C

Applications	Tested Dilution	Publications
Functional Assay (FN)	Assay-Dependent	-
Control (Ctrl)	Assay-Dependent	-
Miscellaneous PubMed (Misc)	-	6 Publications

Product Specific Information

Description: IFN-alpha2 is a type I interferon, previously known as B-cell interferon, leukocyte interferon, lymphoblast interferon, and pH2-stable interferon. IFN-alpha2 is one of at least 23 different known variants of IFN-alpha. The individual proteins have molecular masses between 19-26 kDa and consist of proteins with lengths of 156-166 and 172 amino acids. IFN-alpha 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-alpha2 demonstrates antiviral, antiparasitic, antiproliferative activities.

Applications Reported: The recombinant mouse IFNa2 has been reported useful for bioassay.

Applications Tested: The recombinant mouse IFN alpha2 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 10e7 Units/mg.

Source: E. coli expressed amino acids Cys24-Glu190 of mature mouse IFN alpha2 accession # NM_010503.

Bioactivity: The recombinant mouse IFN alpha2 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 Units/mg.

Endotoxin: Less than 0.01 ng/ug cytokine as determined by the LAL assay. Purity: >98% as determined by SDS-PAGE.

Molecular Weight: 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.

Storage and handling: For best recovery, quick-spin vial prior to opening. Use in a sterile environment.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

6 References

Miscellaneous PubMed (6)

Leukemia

Characterization of p190-Bcr-Abl chronic myeloid leukemia reveals specific signaling pathways and therapeutic targets.

Authors: Adnan-Awad S, Kim D, Hohtari H, Javarappa KK, Brandstoetter T, Mayer I, Potdar S, Heckman CA, Kytölä S, Porkka K, Doma E, Sexl V, Kankainen M, Mustjoki S

Species

Not Applicable

Dilution

Not Cited

Year

2021

Frontiers in cellular and infection microbiology

Influenza Virus Infection Induces ZBP1 Expression and Necroptosis in Mouse Lungs.

Authors: Wang Y, Hao Q, Florence JM, Jung BG, Kurdowska AK, Samten B, Idell S, Tang H

Species

Not Applicable

Dilution

Not Cited

Year

2020

[View more Misc references on thermofisher.com](#)

More applications with references on thermofisher.com

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.