
Mouse IFN alpha 2 Recombinant Protein Carrier-Free

Catalog Number: 34-8312

Also Known As: Interferon-alpha 2, IFN-α2

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Contents: Mouse IFN alpha 2 Recombinant Protein Carrier-Free

REF Catalog Number: 34-8312

Handling Conditions: For best recovery, quick-spin vial prior to opening. Use in sterile environment.

Source: E. coli expressed amino acids Cys24-Glu190 of mature mouse IFNα2 (accession # NM_010503).

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

Endotoxin Level: Less than 0.01 ng/ug cytokine as determined by the LAL assay.


Bioactivity: 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.

Formulation: Sterile liquid; 50mM NaAc, 0.1M NaCl, pH 5.0

 Temperature Limitation: Store at less than or equal to -70°C.

LOT Batch Code: Refer to Vial

 Use By: Refer to Vial

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.

Applications Reported

The recombinant mouse IFNα2 has been reported useful for bioassay and ELISA.

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.

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