abcam

Product datasheet

Recombinant mouse Interferon gamma protein (Active) ab9922

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Description

Product name	Recombinant mouse Interferon gamma protein (Active)
Biological activity	Determined by its ability to inhibit the proliferation of murine WEHI-279 cells. The expected **ED_{50}** is ≤ 0.2 ng/ml, corresponding to a specific activity of ≥ 5 x 10^6 units/mg.
Purity	>= 98 % SDS-PAGE. >= HPLC analyses. Sterile filtered.
Endotoxin level	< 1.000 Eu/µg
Expression system	Escherichia coli
Accession	P01580
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Mouse
Sequence	MHGTVIESLE SLNNYFNSSG IDVEEKSLFL DIWRNWQKDG DMKILQSQII SFYLRLFEVL KDNQAISNNI SVIESHLITT FFSNSKAKKD AFMSIAKFEV NNPQVQRQAF NELIRVVHQL LPESSLRKRK RSRC
Predicted molecular weight	16 kDa
Molecular weight information	C-terminal truncation due to proteolytic cleavage occurs during E. coli fermentation and results in a 15.1 kDa protein confirmed by mass spectroscopy. SDS-PAGE analysis of ab9922 shows a band that migrates at approximately 11-12 kDa, under nonreducing and reducing conditions.
Amino acids	23 to 155
Additional sequence information	Full-length mature protein, minus the signal peptide.

Specifications

Our **Abpromise guarantee** covers the use of **ab9922** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	HPLC Functional Studies

	SDS-PAGE
Form	Lyophilized

Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. This product is an active protein and may elicit a biological response in vivo, handle with caution.
Reconstitution	This information is lot specific. Please contact our technical Support team for details.

General Info

Function	Produced by lymphocytes activated by specific antigens or mitogens. IFN-gamma, in addition to having antiviral activity, has important immunoregulatory functions. It is a potent activator of macrophages, it has antiproliferative effects on transformed cells and it can potentiate the antiviral and antitumor effects of the type I interferons.
Tissue specificity	Released primarily from activated T lymphocytes.
Involvement in disease	In Caucasians, genetic variation in IFNG is associated with the risk of aplastic anemia (AA) [MIM:609135]. AA is a rare disease in which the reduction of the circulating blood cells results from damage to the stem cell pool in bone marrow. In most patients, the stem cell lesion is caused by an autoimmune attack. T-lymphocytes, activated by an endogenous or exogenous, and most often unknown antigenic stimulus, secrete cytokines, including IFN-gamma, which would in turn be able to suppress hematopoiesis.
Sequence similarities	Belongs to the type II (or gamma) interferon family.
Post-translational modifications	Proteolytic processing produces C-terminal heterogeneity, with proteins ending alternatively at Gly-150, Met-157 or Gly-161.
Cellular localization	Secreted.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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