

Product datasheet

Recombinant rat Interferon gamma protein ab198568

1 Image

Description

Product name	Recombinant rat Interferon gamma protein
Biological activity	The activity is determined in a viral challenge assay using EMC virus on L929 and is typically less than 0.1 ng/mL.
Purity	> 95 % SDS-PAGE. Protein Content and Purity (typically = 95%) determined by: Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm.
Endotoxin level	<=1.000 Eu/µg
Expression system	Escherichia coli
Accession	P01581
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Rat
Sequence	MQGTLIESLE SLKNYFNSSS MDAMEGKSLL LDIWRNWQKD GNTKILESQI ISFYLRRLFV LKDNQAISNN ISVIESHLIT NFFSNSKAKK DAFMSIAKFE VNNPQIQHKA VNELIRVIHQ LSPESSLRKR KRSRC
Predicted molecular weight	16 kDa
Amino acids	23 to 156
Additional sequence information	This product is for the mature full length protein. The signal peptide is not included.

Specifications

Our [Abpromise guarantee](#) covers the use of **ab198568** in the following tested applications.

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

Applications	Functional Studies SDS-PAGE
Form	Lyophilized

Preparation and Storage

Stability and Storage

Shipped at 4°C. Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.

Constituent: 100% PBS

This product is an active protein and may elicit a biological response in vivo, handle with caution.

Reconstitution

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.

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.

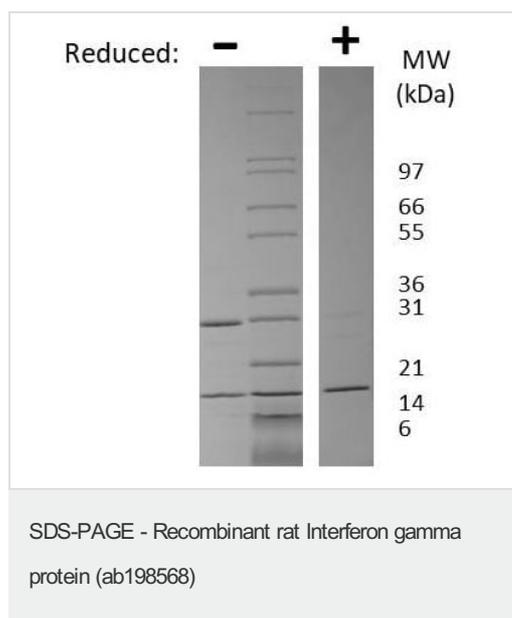
Post-translational modifications

Proteolytic processing produces C-terminal heterogeneity, with proteins ending alternatively at Gly-150, Met-157 or Gly-161.

Cellular localization

Secreted.

Images



SDS PAGE analysis of ab198568 under non-reducing (-) and reducing (+) conditions. Stained with Coomassie Blue.

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

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