

Product datasheet

Recombinant rhesus monkey Interferon gamma protein (Active) ab243112

[1 Image](#)

Description

Product name	Recombinant rhesus monkey Interferon gamma protein (Active)
Biological activity	Fully biologically active when compared to standard. The ED ₅₀ as determined by an anti-viral assay using HeLa cells infected with encephalomyocarditis (EMC) virus is less than 20.0 ng/ml, corresponding to a specific activity of >5.0 x 10 ⁴ IU/mg.
Purity	> 97 % SDS-PAGE. >97% as determined by SDS-PAGE and HPLC.
Endotoxin level	< 1.000 Eu/μg
Expression system	Escherichia coli
Accession	<u>P63310</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Rhesus monkey
Sequence	QDPYVKEAENLKKYFNAGDPDVADNGTLFLDILRNWKEE SDRKIMQSQIV SFYFKLFKNFKDDQRIQKSVETIKEDINVKFFNSNKKKRDD FEKLTNYSV TDSNVQRKAVHELIVMAELSPAAKIGKRKRSQMFRGRR ASQ
Predicted molecular weight	17 kDa
Amino acids	24 to 165
Additional sequence information	Full length mature chain without the signal peptide.

Specifications

Our **Abpromise guarantee** covers the use of **ab243112** 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 HPLC
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SDS-PAGE

Form Lyophilized

Preparation and Storage

Stability and Storage Shipped at 4°C. Store at -80°C. Avoid freeze / thaw cycle.

Constituent: PBS

0.2 µm filtered.

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

Reconstitution Briefly centrifuge prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at -20 °C or below. Further dilutions should be made in appropriate buffered 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.

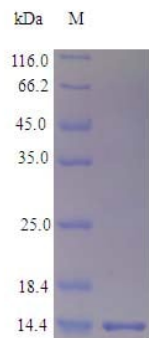
Sequence similarities Belongs to the type II (or gamma) interferon family.

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 ab243112



SDS-PAGE - Recombinant rhesus monkey
Interferon gamma protein (Active) (ab243112)

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

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