Product name: Recombinant Human Interferon gamma protein

Biological activity: Measured in a cytotoxicity assay using WiDr cells. The ED50 for this effect is less or equal to 1.5 ng/ml.

Purity: > 95% SDS-PAGE.

Recombinant human Interferon gamma was expressed in E.coli and purified by FPLC gel-filtration chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.

Endotoxin level: < 1.000 Eu/µg

Expression system: Escherichia coli

Protein length: Full length protein

Animal free: No

Nature: Recombinant

Species: Human

Sequence:

MQDPYVEAE NLKKYFNAGH SDVADNGTLF
LGILKNWKEE SDRKMQSQQVSFYFKLFKN FKDDQSIQKS
VETIKEDMV KFFNSNKKR DDFEKLTNYS
VTDLNVRKAI HEIQVMAE LSPAATGGKR
KRSQMLFRGR RASQ

Specifications

Our Abpromise guarantee covers the use of ab51240 in the following tested applications.

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

Applications:
- Biological Activity
- SDS-PAGE
- Western blot

Form: Liquid

Preparation and Storage
### Stability and Storage

Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

**pH:** 7.40

**Constituents:** PBS, 10% Glycerol (glycerin, glycerine)

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

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### 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

Secretd.

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### Images

**Sandwich ELISA - Recombinant Human Interferon gamma protein (ab51240)**

Standard curve for Interferon gamma (Analyte: ab51240); dilution range 1pg/ml to 1µg/ml using Capture Antibody **ab25014** at 5µg/ml and Detector Antibody **ab25101** at 0.5µg/ml.
ab51240 on 14% SDS-PAGE.

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

Our Abpromise to you: Quality guaranteed and expert technical support

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- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards
If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

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