### Overview

**Product name**: Recombinant Human Interferon gamma protein

**Protein length**: Full length protein

### Description

<table>
<thead>
<tr>
<th>Nature</th>
<th>Recombinant</th>
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<tbody>
<tr>
<td>Source</td>
<td>Escherichia coli</td>
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**Amino Acid Sequence**

**Species**: Human

**Sequence**

MQDPYVKKEAE NLKKYFNAGH SDVADNGTLF
LGILKNWKEE SDRKMQSQ/VSFYFKLFKN
FKDDQSQKS VETIKEDMNV KFFNSKKKKR
DDFEKLTNYS VTDLNVQRKA IHELIQVMAE
LSPAAKTGKR 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**

- SDS-PAGE
- Western blot

**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.

**Form**

Liquid

### Preparation and Storage

**Stability and Storage**

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

- Preservative: None
- Constituents: PBS, pH 7.4
### 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

#### 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.

#### SDS-PAGE - Recombinant Human Interferon gamma protein (ab51240)
ab51240 on 14% SDS-PAGE.
Western blot - Recombinant Human Interferon gamma protein (ab51240)

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