abcam

## Product datasheet

# Recombinant Horse Interferon gamma protein ab208975

### Description

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| **Product name** | Recombinant Horse Interferon gamma protein |
| **Purity** | > 95 % SDS-PAGE.<br>ab208975 was purified by Ion-exchange chromatography. |
| **Expression system** | Yeast |
| **Accession** | P42160 |
| **Protein length** | Full length protein |
| **Animal free** | No |
| **Nature** | Recombinant |
| **Species** | Equus |
| **Sequence** | YYCQAAFFKEIENLKEYFNASNPDVGDGGPLFLDILKNWK EDSDKKIIQS QIVSFYFKLFENLKDNQVIQKSMDTIKEDLFAKFFNSSTSK LEDFQKLIQ IPVNDLKVQRKAISELIKVMNDLSPKANLRKRKRSQNPFRG RRALQ |
| **Predicted molecular weight** | 17 kDa |
| **Amino acids** | 21 to 166 |
| **Additional sequence information** | This product is the mature full length protein from aa 21 to 166. The signal peptide is not included. |

### Specifications

Our Abpromise guarantee covers the use of **ab208975** in the following tested applications.

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

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| **Applications** | SDS-PAGE |
| **Form** | Lyophilized |
| **Additional notes** | ab208975 was produced in yeast and therefore does not have endotoxin, is naturally folded, and post-translationally modified. |

### Preparation and Storage

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| **Stability and Storage** | Shipped at 4°C. Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.<br>Constituents: 10% Trehalose, 90% PBS |
| **Reconstitution** | Reconstitute with sterile Phosphate-buffered saline containing at least 0.1% carrier protein. |

## General Info

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| **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. |



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- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- 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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