

Product datasheet

Recombinant Woodchuck Interferon gamma protein (His tag) ab225661

[3 Images](#)

Description

Product name	Recombinant Woodchuck Interferon gamma protein (His tag)
Purity	> 90 % SDS-PAGE.
Expression system	Yeast
Accession	<u>O35735</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Woodchuck
Sequence	QDTVNKEIEDLKGYNASNSNVSDGGSLFLDILDKWKEES DKKVIQSQM SFYFKLFEHLKDNKIQRSMDTIKGD LFAKFFNSSTNKLQD FLKVSQVQV NDLKIQRKAVSELKKVMNDLLPHSTLRKRKRSQSSIRGRR ASK
Predicted molecular weight	19 kDa including tags
Amino acids	24 to 166
Tags	His tag N-Terminus
Additional sequence information	Marmota monax (Woodchuck) protein. This product is the mature full length protein from aa 24 to 166. The signal peptide is not included.

Specifications

Our **[Abpromise guarantee](#)** covers the use of **ab225661** in the following tested applications.

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

Applications	Mass Spectrometry SDS-PAGE
Mass spectrometry	LC-MS/MS
Form	Liquid

Preparation and Storage

Stability and Storage

Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

pH: 7.2

Constituents: 50% Glycerol (glycerin, glycerine), Tris buffer

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.

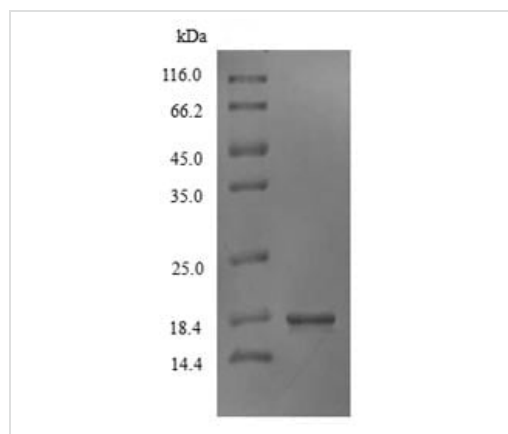
Post-translational modifications

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

Cellular localization

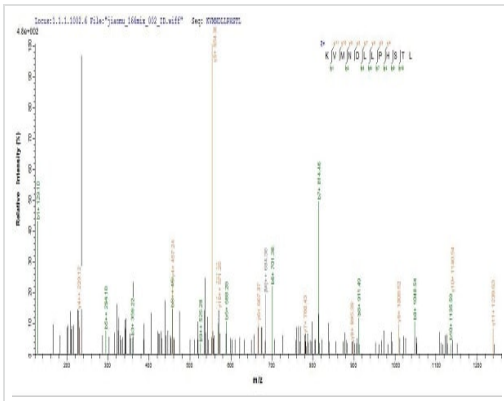
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Images



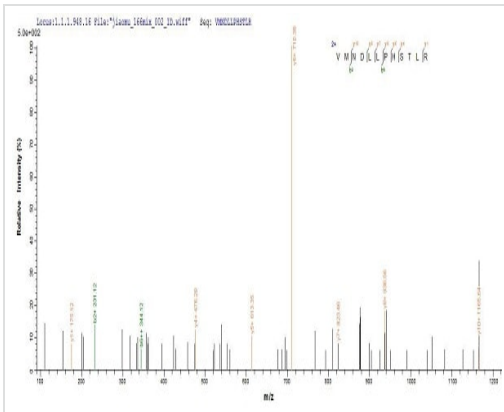
SDS-PAGE - Recombinant Woodchuck Interferon gamma protein (His tag) (ab225661)

(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) analysis of ab225661 with 5% enrichment gel and 15% separation gel.



Mass Spectrometry - Recombinant Woodchuck Interferon gamma protein (His tag) (ab225661)

Based on the SEQUEST from database of Yeast host and target protein, the LC-MS/MS analysis result of ab225661 could indicate that this peptide derived from Yeast-expressed Marmota monax (Woodchuck) Interferon gamma.



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

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