

Product datasheet

Recombinant human Interferon gamma protein
ab198566

1 Image

Description

Product name	Recombinant human Interferon gamma protein	
Biological activity	The activity is measured in antiviral assays using virally infected L929 cells and it is typically less than 0.1 ng/mL.	
Purity	> 95 % SDS-PAGE. Protein Content and Purity (typically = 95%) determined by: HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm.	
Endotoxin level	<=1.000 Eu/µg	
Expression system	Escherichia coli	
Accession	P01579	
Protein length	Full length protein	
Animal free	No	
Nature	Recombinant	
Species	Human	
Sequence	MQDPYVKEAENLKKYFNAGHSDVADNGTLFLGILKNW KEESDRKIMQSQI VSFYFKLFKNFKDDQSIQKSVETIKEDMNVKFFNSNKK KRDDFEKLTNYS VTDLNVQRKAIHELIVMAELSPAAGTGRKRKRSQMLFQ GRRASQ	
Predicted molecular weight	17 kDa	
Amino acids	24 to 166	
Additional sequence information	This product is for the mature full length protein. The signal peptide is not included.	

Specifications

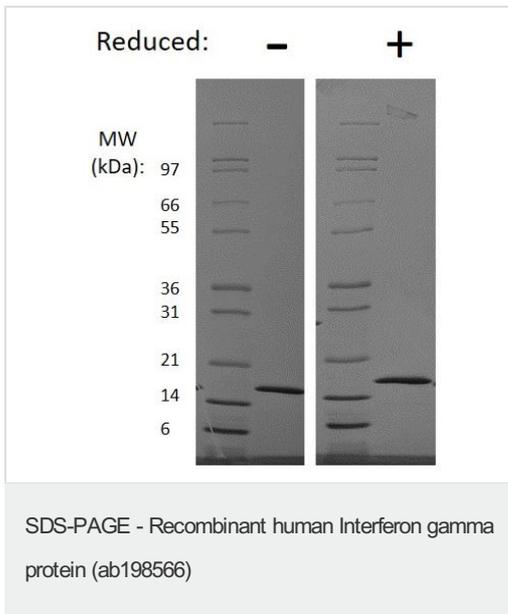
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The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Functional Studies
	HPLC

	SDS-PAGE
Form	Lyophilised
Preparation and Storage	
Stability and Storage	<p>Shipped at 4°C. Store at -20°C. For long term storage it is recommended to add a carrier protein on reconstitution (0.1% HSA or BSA).</p> <p>pH: 7.2</p> <p>Constituents: 0.08% Sodium phosphate, 0.29% Sodium chloride</p> <p>This product is an active protein and may elicit a biological response in vivo, handle with caution.</p>
Reconstitution	It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous 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 ab198566 under non-reducing (-) and reducing (+) conditions. Stained with Coomassie Blue.

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

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