

ARG70035
Human IFN gamma recombinant protein (Active) (His-tagged, C-ter)

Package: 100 µg

Store at: -20°C

Summary

Product Description	E. coli expressed, His-tagged (C-ter) Active Human IFN gamma recombinant protein
Tested Application	SDS-PAGE
Target Name	IFN gamma
Species	Human
A.A. Sequence	Gln24 - Gln166
Expression System	E. coli
Activity	Active
Activity Note	Determined by its ability to induce cytotoxicity in HT29 cells. The ED50 for this effect is 2×10^6 IU/mg.
Alternate Names	IFN-gamma; Interferon gamma; Immune interferon; IFG; IFI

Properties

Form	Powder
Purification Note	Endotoxin level is less than 0.01 EU/µg of the protein, as determined by the LAL test.
Purity	>95% (by SDS-PAGE)
Buffer	PBS (pH 8.0)
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min at room temperature to make sure the protein is dissolved completely.
Storage instruction	For long term, lyophilized protein should be stored at -20°C or -80°C. After reconstitution, aliquot and store at -20°C or -80°C for up to one month. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	IFNG
Gene Full Name	interferon, gamma
Background	This gene encodes a soluble cytokine that is a member of the type II interferon class. The encoded protein is secreted by cells of the both the innate and adaptive immune systems. The active protein is a homodimer that binds to the interferon gamma receptor which triggers a cellular response to viral and microbial infections. Mutations in this gene are associated with an increased susceptibility to viral, bacterial and parasitic infections and to several autoimmune diseases. [provided by RefSeq, Sep 2015]
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. [UniProt]

Highlight

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PTM

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

Cellular Localization

Secreted. [UniProt]

Images



Human IFN gamma recombinant protein

ARG70035 Human IFN gamma recombinant protein (Active) (His-tagged, C-ter) SDS-PAGE image

SDS-PAGE analysis of ARG70035 Human IFN gamma recombinant protein (Active) (His-tagged, C-ter).