

ARG70382 Human IL12 p70 recombinant protein (Active) (His-tagged, C-ter)

Package: 100 µg, 20 µg
Store at: -20°C

Summary

Product Description	HEK293 expressed, His-tagged (C-ter) Active Human IL12 p70 recombinant protein
Tested Application	SDS-PAGE
Target Name	IL12 p70
Species	Human
A.A. Sequence	Ile1 - Cys327
Expression System	HEK293
Activity	Active
Activity Note	Determined by its ability to induce IFN gamma secretion in PHA-activated human peripheral blood lymphocytes (PBMC). The ED50 for this effect is 0.05-0.2 ng/mL.
Alternate Names	IL12A; Interleukin 12A; IL-12A; NKSF1; CLMF; NFSK; P35; Interleukin 12A (Natural Killer Cell Stimulatory Factor 1, Cytotoxic Lymphocyte Maturation Factor 1, P35); Cytotoxic Lymphocyte Maturation Factor 35 KDa Subunit; Cytotoxic Lymphocyte Maturation Factor 1, P35; NF Cell Stimulatory Factor Chain 1; NK Cell Stimulatory Factor Chain 1; Interleukin-12 Subunit Alpha; Interleukin-12 Alpha Chain; Interleukin 12, P35; IL-12, Subunit P35; IL35 Subunit; CLMF P35; Natural Killer Cell Stimulatory Factor 1, 35 KD Subunit; IL-12 Subunit P35

Properties

Form	Powder
Purification Note	Endotoxin level is less than 0.1 EU/µg of the protein, as determined by the LAL test.
Purity	> 98% (by SDS-PAGE)
Buffer	PBS (pH 7.4)
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.

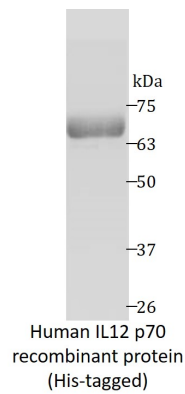
Bioinformation

Gene Symbol	IL12A
Gene Full Name	Interleukin 12A
Background	This gene encodes a subunit of a cytokine that acts on T and natural killer cells, and has a broad array of biological activities. The cytokine is a disulfide-linked heterodimer composed of the 35-kD subunit encoded by this gene, and a 40-kD subunit that is a member of the cytokine receptor family. This cytokine is required for the T-cell-independent induction of interferon (IFN)-gamma, and is important for the differentiation of both Th1 and Th2 cells. The responses of lymphocytes to this cytokine are

mediated by the activator of transcription protein STAT4. Nitric oxide synthase 2A (NOS2A/NOS2) is found to be required for the signaling process of this cytokine in innate immunity.

Function	Signaling requires the transcription factors STAT1 and STAT4, which form a unique heterodimer that binds to distinct DNA sites.
PTM	Disulfide bond, Glycoprotein
Cellular Localization	Secreted

Images



ARG70382 Human IL12 p70 recombinant protein (Active) (His-tagged, C-ter) SDS-PAGE image

SDS-PAGE analysis of ARG70382 Human IL12 p70 recombinant protein (Active) (His-tagged, C-ter)