

Recombinant Active Human IL12A Protein, His-tagged(C-ter)

Cat. No. IL12A-139H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Active Human IL12A Protein with His tag (C-ter) was expressed in E. coli.
Species	Human
Source	E.coli
Description	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. [provided by RefSeq, Jul 2008]
Form	Powder
Bio-activity	Measured in a cell proliferation assay using PHA-activated human peripheral blood lymphocytes (PBMC). The ED50 for this effect is < 49 pg/ml.
AA Sequence	MRNLPVATPDPGMFPCLHHSQNLLRAVSNMLQKARQTLEFYPTCTSEEIDHEDITKDK TSTVEACLPLELTKNESCLNSRETSFITNGSCLASRKTSFMMALCLSSIYEDLKMYQV EFKTMNAKLLMDPKRQIFLDQNMMLAVIDELMQALNFNSETVPQKSSLEEPDFYKTKIK

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LCILLHAFRIRAVTIDRVMSYLNAS

Endotoxin Endotoxin level is less than 0.1 EU/μg of the protein, as determined by the LAL test.

Purity > 95% (by SDS-PAGE)

Applications SDS-PAGE

Notes For laboratory research only, not for drug, diagnostic or other use.

Storage Lyophilized protein should be stored at -20°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.

Storage Buffer PBS (pH 8.0)

Reconstitution It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 100 μg/mL and incubate the stock solution for at least 20 min at room temperature to make sure the protein is dissolved completely.

GENE INFORMATION

Gene Name IL12A interleukin 12A (natural killer cell stimulatory factor 1, cytotoxic lymphocyte maturation factor 1, p35) [Homo sapiens]

Official Symbol IL12A

Synonyms IL12A; interleukin 12A (natural killer cell stimulatory factor 1, cytotoxic lymphocyte maturation factor 1, p35); NKSF1; interleukin-12 subunit alpha; CLMF; cytotoxic lymphocyte maturation factor 1; p35; IL 12; subunit p35; IL 12A; IL35 subunit;

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interleukin 12; interleukin 12 alpha chain; natural killer cell stimulatory factor 1; 35 kD subunit; NF cell stimulatory factor chain 1; NFSK; CLMF p35; IL-12 subunit p35; IL-12, subunit p35; interleukin 12, p35; interleukin-12 alpha chain; NK cell stimulatory factor chain 1; cytotoxic lymphocyte maturation factor 1, p35; cytotoxic lymphocyte maturation factor 35 kDa subunit; natural killer cell stimulatory factor 1, 35 kD subunit; P35; IL-12A;

Gene ID [3592](#)

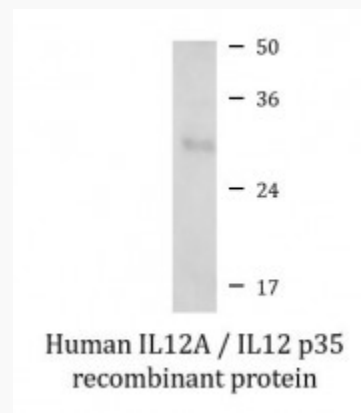
mRNA Refseq [NM_000882](#)

Protein Refseq [NP_000873](#)

MIM [161560](#)

UniProt ID [P29459](#)

SDS-PAGE



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