

## Active Recombinant Human IL12 Protein

**Cat. No.** IL12A-062H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human IL-12 is a 75.0 kDa heterodimeric glycoprotein consisting of disulfide-linked 35 kDa (p35, aa23-219) and 40 kDa (p40, aa23-328) subunits (503 total amino acid residues) without tag was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	23-219;23-328 a.a.
<b>Description</b>	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.
<b>Bio-activity</b>	Measured in a cell proliferation assay using PHA-stimulated human T lymphoblasts. The ED50 for this effect is 0.01-0.05 ng/mL.
<b>Molecular Mass</b>	Recombinant Human IL-12 is a 75.0 kDa heterodimeric glycoprotein consisting of disulfide-linked 35 kDa (p35, aa23-219) and 40 kDa (p40, aa23-328) subunits (503

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

total amino acid residues).

**Endotoxin** < 1.0 EU/μg of the protein as determined by the LAL method

**Purity** > 95 % as determined by SDS-PAGE

**Storage** At -80 centigrade. Avoid repeated freeze-thaw cycles.

**Storage Buffer** PBS

## GENE INFORMATION

**Gene Name** IL12A interleukin 12A [ Homo sapiens (human) ]

**Official Symbol** IL12A

**Synonyms**

IL12A; interleukin 12A; P35; CLMF; NFSK; NKSF1; IL-12A; interleukin-12 subunit alpha; Names; CLMF p35; IL-12, subunit p35; IL35 subunit; NF cell stimulatory factor chain 1; NK cell stimulatory factor chain 1; cytotoxic lymphocyte maturation factor 1, p35; cytotoxic lymphocyte maturation factor 35 kDa subunit; interleukin 12, p35; interleukin 12A (natural killer cell stimulatory factor 1, cytotoxic lymphocyte maturation factor 1, p35); interleukin-12 alpha chain

**Gene ID** 3592

**mRNA Refseq** NM\_000882

**Protein Refseq** NP\_000873

**MIM** 161560

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UniProt ID

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