

## Active Recombinant Human IL12A Protein (Arg23-Ser219), C-His tagged, Animal-free, Carrier-free

Cat. No. IL12A-176H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human IL12A Protein (Arg23-Ser219) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	Arg23-Ser219
<b>Description</b>	Interleukin 12 (IL-12) is a pro-inflammatory cytokine with a molecular weight of 70 kDa composed of two subunits, IL-12p35 (35 kDa) and IL-12p40 (40 kDa), and IL-12p35 as a p35-p35 homodimer with 57kDa molecular weight and a p35 monomer of 27kDa molecular weight. The p35 molecule is unique to IL-12, while p40 is shared by both IL-12 and IL-23. IL-12 promotes Th1 T cell responses, while IL-23 promotes Th17 T cell responses.
<b>Form</b>	Lyophilized
<b>Bio-activity</b>	Measured in a cell proliferation assay using PHA-activated human peripheral blood lymphocytes (PBMC). The ED50 for this effect is < 49 pg/mL.
<b>Molecular Mass</b>	The protein has a calculated MW of 23.48 kDa. The protein migrates as 28 kDa under reducing condition (SDS-PAGE analysis).

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<b>Endotoxin</b>	< 0.1 EU/μg of the protein by the LAL method.
<b>Purity</b>	>95% as determined by SDS-PAGE analysis.
<b>Storage</b>	This product is stable after storage at: -20 centigrade for 12 months in lyophilized state from date of receipt. -20 or -80 centigrade for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.
<b>Storage Buffer</b>	Lyophilized from a 0.2 μm filtered solution of PBS, pH 8.0.
<b>Reconstitution</b>	It is recommended to reconstitute the lyophilized protein in sterile H2O to a concentration not less than 200 μg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.

## GENE INFORMATION

<b>Gene Name</b>	IL12A interleukin 12A (natural killer cell stimulatory factor 1, cytotoxic lymphocyte maturation factor 1, p35) [ Homo sapiens (human) ]
<b>Official Symbol</b>	IL12A
<b>Synonyms</b>	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; 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

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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](#)

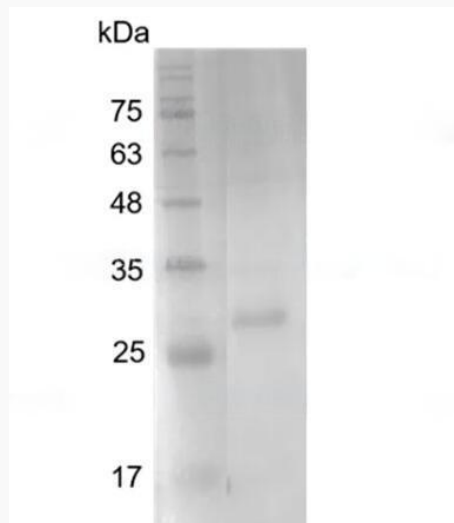
**mRNA Refseq** [NM\\_000882](#)

**Protein Refseq** [NP\\_000873](#)

**MIM** [161560](#)

**UniProt ID** [P29459](#)

**SDS-PAGE analysis  
of recombinant  
human IL-12 p35.**



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