Recombinant Human IL12A protein, His-tagged

Cat. No. IL12A-587H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL12A (P29459) aa. (IL27B subunit (Arg21~Lys229) and the mature form of human IL12A (Arg23~Ser219) linked by a polypeptide linker (GGGGS)3) fused with His tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	The IL35 complex composed of IL27B subunit (Arg21~Lys229) and the mature form of human IL12A (Arg23~Ser219) linked by a polypeptide linker (GGGGS)3
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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 51.7kDa; Accurate Molecular Mass: 55kDa as determined by SDS-PAGE reducing conditions.

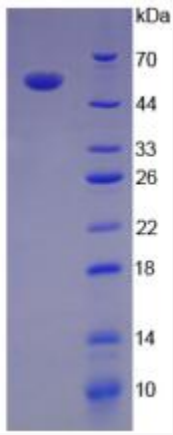
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Purity	>98%
Characteristic	Isoelectric point is 8.7.
Applications	Cell culture; Activity Assays; In vivo assays.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	20mM Tris, 150mM NaCl, pH8.0, containing 0.05% sarcosyl and 5% trehalose.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex

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; 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

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Gene ID	3592
mRNA Refseq	NM_000882.3
Protein Refseq	NP_000873.2
UniProt ID	P29459
SDS-PAGE	

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