

Active Recombinant Human IL12A & IL12B Protein, His-tagged

Cat. No. IL12A & IL12B-1242H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant p35 subunit of human IL-12, termed as IL12A (NP_000873.2) (Met 1-Ser 219) was fused with a polyhistidine tag at the C-terminus, constructed the plasmid 1 ; Recombinant p40 subunit of human IL-12, termed as IL12B (NP_002178.2) (Met 1-Ser 328) w
Species	Human
Source	HEK293
ProteinLength	1-219;1-328 a.a.
Predicted N Terminal	Arg 23 & Ile 23
Form	Lyophilized from sterile PBS, pH 7.4, 5%~8% trehalose and mannitol.
Bio-activity	1. Measured by its ability to bind biotinylated recombinant human IL12RB1 in a functional ELISA. 2. Measured in a cell proliferation assay using Anti-CD28 and Anti-CD3-stimulated PBMC. The ED50 for this effect is typically 0.1-0.6 ng/mL.
Molecular Mass	The recombinant IL12 heterodimer of human IL12A/IL12B comprises 525 (208 + 317) amino acids and has a calculated molecular mass of 60.2 (24 + 36.2) kDa. The apparent molecular mass of rh IL12 heterodimer is approximately 40 & 43 kDa respectively in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.

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Purity	>95 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70°C.
Storage	Store it under sterile conditions at -20°C~-70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

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; interleuk
Gene ID	3592
mRNA Refseq	NM_000882
Protein Refseq	NP_000873
MIM	161560
UniProt ID	P29459

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Chromosome Location	3p12-q13.2
Pathway	African trypanosomiasis, organism-specific biosystem; African trypanosomiasis, conserved biosystem; Allograft rejection, organism-specific biosystem; Allograft rejection, conserved biosystem; Amoebiasis, organism-specific biosystem; Amoebiasis, conserved
Function	contributes_to cytokine activity; contributes_to cytokine activity; contributes_to growth factor activity; contributes_to growth factor activity; interleukin-12 beta subunit binding; interleukin-12 receptor binding; interleukin-27 binding; protein binding

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