

Active Recombinant Human IL12 protein, His-tagged

Cat. No. IL12-159H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human IL12 protein is produced by HEK293 expression system and is fused with a His tag at the C-terminal. A DNA sequence encoding the p35 subunit of human IL-12, termed as IL12A (Met 1-Ser 219) was fused with a polyhistidine tag at the C-terminus, constructed the plasmid 1; A DNA sequence encoding the p40 subunit of human IL-12, termed as IL12B (NP_002178.2) (Met 1-Ser 328) was fused with a polyhistidine tag at the C-terminus, constructed the plasmid 2. The two plasmids were co-expressed and the heterodimer was purified.

Species Human

Source HEK293

ProteinLength IL12A: Met 1-Ser 219
IL12B: Met 1-Ser 328

Form Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.

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 60.2 kDa

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Endotoxin	Less than 1.0 EU per ug by the LAL method.
Purity	> 95 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70 centigrade.
Storage	Store it under sterile conditions at -20 to -80 centigrade. 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 0.25mg/ml.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	IL12A interleukin 12A (natural killer cell stimulatory factor 1, cytotoxic lymphocyte maturation factor 1, p35) [Homo sapiens] & IL12B interleukin 12B (natural killer cell stimulatory factor 2, cytotoxic lymphocyte maturation factor 2, p40) [Homo sapiens]
Official Symbol	IL12A & IL12B
Synonyms	IL12A; NKSF1; CLMF; p35; IL 12; subunit p35; IL 12A; NFSK; CLMF p35; P35; IL-12A; IL12B; NKSF2; CLMF; CLMF2; p40; IL 12B; IL12; subunit p40; NKSF; CLMF p40
Gene ID	3592 & 3593

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mRNA Refseq	NM_000882 & NM_002187
Protein Refseq	NP_000873 & NP_002178
MIM	161560 & 161561
UniProt ID	P29459 & P29460
IL12-159H, 1	

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