Recombinant Human Interleukin 12B

Cat. No. IL12B-177H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human IL-12 p40 is a 40 kDa protein containing 306 amino acid residues. It was expressed in E.Coli.
Species	Human
Source	E.coli
Description	Interleukin-12 is a disulfide-linked heterodimeric protein (p70), composed of two subunits, p35 and p40, which are encoded by two different genes. Accumulating data indicate that p40 secretion precedes that of IL-12 expression. In addition, to its ability to covalently bind to p35 to form IL-12, p40 can bind to p19 to form IL-23.
Purity	> 95% by SDS-PAGE and HPLC analysis.
Endotoxin Level	< 0.1 ng per μg of IL-12p40.
Stabilizer	None.
Formulation	Lyophilized.
Biological Activity	Not available.
Reconstitution	The human IL-12p40 should be reconstituted in water to a concentration of 0.1-1.0 mg/ml. This solution can be diluted in water or other buffer solutions or stored at -20°C.

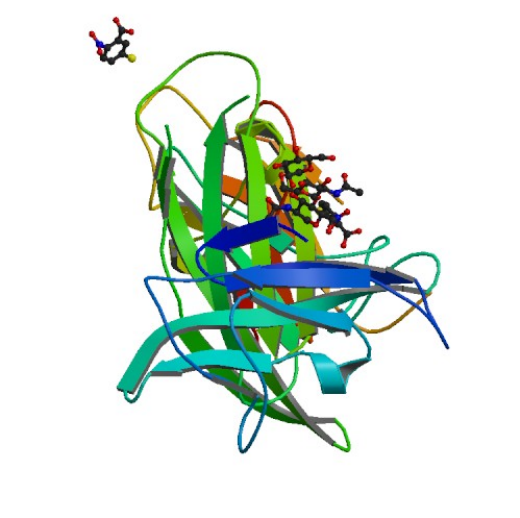
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Stability	The lyophilized protein is stable for a few weeks at room temperature, but best stored at -20°C. Reconstituted human IL-12p40 should be stored in working aliquots at -20°C. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	IL12B interleukin 12B (natural killer cell stimulatory factor 2, cytotoxic lymphocyte maturation factor 2, p40) [Homo sapiens]
Synonyms	OTTHUMP00000160820; CLMF; CLMF2; IL-12B; NKSF; NKSF2; CLMF p40; Cytotoxic lymphocyte maturation factor 40 kDa subunit; IL-12 subunit p40; IL12, subunit p40; NK cell stimulatory factor chain 2; cytotoxic lymphocyte maturation factor 2, p40; interleukin 12, p40; interleukin 12B; interleukin 12B (natural killer cell stimulatory factor 2, cytotoxic; interleukin 12B (natural killer cell stimulatory factor 2, cytotoxic lymphocyte maturation factor 2, p40); IL12B
Gene ID	3593
mRNA Refseq	NM_002187
Protein Refseq	NP_002178
MIM	161561
UniProt ID	P29460
Chromosome Location	5q31.1-q33.1
Pathway	Cytokine-cytokine receptor interaction; Jak-STAT signaling pathway; Toll-like receptor signaling pathway; Type I diabetes mellitus

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Function	contributes_to cytokine activity; hematopoietin/interferon-class (D200-domain) cytokine receptor activity; interleukin-12 alpha subunit binding; interleukin-12 receptor binding; protein binding; protein heterodimerization activity; protein homodimerization activity; signal transducer activity
PDB rendering based on 1f42.	

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