

Recombinant Bovine Interleukin 12B

Cat. No. IL12B-233B **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Bovine IL-12 p40 was expressed in Yeast. MW= 34.6 kDa (305 aa).
Species	Bovine
Source	Yeast
Description	Subunit beta of interleukin 12 (also known as natural killer cell stimulatory factor 2, or cytotoxic lymphocyte maturation factor 2, p40) (human gene name IL12B) is a subunit of human interleukin 12. This gene encodes a subunit of interleukin 12, a cytokine that acts on T and natural killer cells, and has a broad array of biological activities. Interleukin 12 is a disulfide-linked heterodimer composed of the 40 kD cytokine receptor like subunit encoded by this gene, and a 35 kD subunit encoded by IL12A. This cytokine is expressed by activated macrophages that serve as an essential inducer of Th1 cells development.
Formulation/ Reconstitution	Lyophilized. Reconstitute with sterile phosphate-buffered saline containing at least 0.1% carrier protein.
Purification	Ion-exchange chromatography.
Purity	>95% as visualized by SDS-PAGE analysis.
Amino Acid Sequence	MWELEKNVYV VELDWPDPAP GETVVLTCDT PEEDGITWTS DQSSEVLGSG KTLTIQVKEF GDAGQYTCHK GGEALSRSL LLHKKEDGIW STDILKDQKE PKAKSFLKCE AKDYSGHFTC WWLTAISTDL KFSVKSSRGS SDPRGVTCGA

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ALLSAEKVSL EHREYNKYTV ECQEGSACPA AEESLLIEVV VEAVHKLKYE
 NYTSSFFIRD IIKPDPPKNL QLRPLKNSRQ VEVSWEYPTD WSTPHSYFSL
 TFCVQVQGKN KREKKLFMDQ TSAKVTCHKD ANVRVQARDR YYSSFWSEWA
 SVSCS.

Bioactivity In testing.

Stability And Storage Stable for up to twelve months from date of receipt at -20°C. Stable for at least 3 months when stored in working aliquots with a carrier protein 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) [Bos taurus]

Synonyms interleukin 12B (natural killer cell stimulatory factor 2, cytotoxic lymphocyte maturation factor 2, p40); IL12B; IL12p40; interleukin-12 subunit beta; IL-12B; CLMF p40; IL-12 subunit p40; interleukin 12 40kDa subunit; cytotoxic lymphocyte maturation factor 40 kDa subunit

Gene ID 281857

mRNA Refseq NM_174356.1

Protein Refseq NP_776781.1

UniProt ID P46282

Chromosome Location 7

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Pathway Allograft rejection; Cytokine-cytokine receptor interaction; Jak-STAT signaling pathway; RIG-I-like receptor signaling pathway; Toll-like receptor signaling pathway; Type I diabetes mellitus

Function cytokine activity; cytokine receptor activity; interleukin-12 alpha subunit binding; interleukin-12 receptor binding; protein binding; protein heterodimerization activity; protein homodimerization activity

PDB rendering based on 1f42.

