



# Recombinant Bovine Interleukin-12 subunit beta (IL12B)

<b>Product Code</b>	CSB-BP011587BO
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P46282
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Bos taurus (Bovine)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MWELEKNV YVVELDWYPD APGETVVLTC DTPEEDGITW TSDQSSEVLG SGKTLTIQVK EFGDAGQYTC HKGGEALSR S LLLLHKKEDG IWSTDILKDQ KEPKAKSFLK CEAKDYS GHF TCWWLTAIST DLKFSVKSSR GSSDPRGVTC GAALLSAEKV SLEHREYNKY TVECQEGSAC PAAEESLLIE VVVEAVHKLK YENYTSSFFI RDIKPDPPK NLQLRPLKNS RQVEVSWEYP DTWSTPHSYF SLTFCVQVQG KNKREKKLFM DQTS AKVTCH KDANVRVQAR DRYSSFWSE WASVSCS
<b>Source</b>	Baculovirus
<b>Target Names</b>	IL12B
<b>Protein Names</b>	Recommended name: Interleukin-12 subunit beta Short name= IL-12B Alternative name(s): Cytotoxic lymphocyte maturation factor 40 kDa subunit Short name= CLMF p40 IL-12 subunit p40
<b>Expression Region</b>	23-327
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	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. This cytokine has been found to be important for sustaining a sufficient number of memory/effector Th1 cells to mediate long-term protection to an intracellular pathogen. Overexpression of this gene was observed in the central nervous system of patients with multiple sclerosis (MS), suggesting a role of this cytokine in the pathogenesis of the disease. The promoter polymorphism of this gene has been reported to be associated with the severity of atopic and non-atopic asthma in children.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a



concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

### Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.