



Recombinant Bovine Interleukin-12 subunit alpha (IL12A)

Product Code	CSB-EP011586BO-B
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P54349
Product Type	Recombinant Protein
Immunogen Species	Bos taurus (Bovine)
Purity	≥85% (SDS-PAGE)
Sequence	RSLPT TTASPGRSCL DYSQNLLRAV SNTLQKARQT LEFYSCTSEE IDHEDITKDK TSTVEACLPL ELATNESCLA SRETSFITNG HCLASGKTSF MTTLCLRSIY EDLKMYHVEF QAMNAKLLMD PKRQIFLDQN MLAAIAELMQ ALNFDSETVP QKPSLKELDF YKTKVKLCIL LHAFRIRAVT IDRMMSYLSS S
Source	E.coli
Target Names	IL12A
Protein Names	Recommended name: Interleukin-12 subunit alpha Short name= IL-12A Alternative name(s): Cytotoxic lymphocyte maturation factor 35 kDa subunit Short name= CLMF p35 IL-12 subunit p35
Expression Region	26-221
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	This gene encodes a subunit of a cytokine that acts on T and natural killer cells, and has a broad array of biological activities. The cytokine is a disulfide-linked heterodimer composed of the 35-kD subunit encoded by this gene, and a 40-kD subunit that is a member of the cytokine receptor family. This cytokine is required for the T-cell-independent induction of interferon (IFN)-gamma, and is important for the differentiation of both Th1 and Th2 cells. The responses of lymphocytes to this cytokine are mediated by the activator of transcription protein STAT4. Nitric oxide synthase 2A (NOS2A/NOS2) is found to be required for the signaling process of this cytokine in innate immunity.
Reconstitution	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.