



Recombinant Rat Interleukin-12 subunit alpha (Il12a)

Product Code	CSB-EP874169RA-B
Abbreviation	Il12a
Storage	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.
Uniprot No.	Q9R103
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	>85% (SDS-PAGE)
Sequence	RVIPVSGP AKCLNQSQNL LKTTDDMVRT AREKCLKHYSC TAGDIDHEDI TRDKTSTLEA CLPLELHKNE SCLATKETSS IIRGSCCLPPQ KTSMMTLCL GSIYEDLKMY QSEFQAINAA LQSHNHQQIT LDRNMLMAID ELMRSLNHSG ETLHQKAPMG EADPYRVKMK LCILLHAFST RVMTINRVMN YLSSS
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	23-215
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.