

II21

## Recombinant Mouse Interleukin-21

<b>Catalog No.</b>	CS322A	<b>Quantity:</b>	2 µg
	CS322B		10 µg
	CS322C		1 mg
	CS322D		100 µg

**Alternate Names:** IL-21

**Description:** Interleukin-21 (IL-21) is a member of the common gamma-chain family of cytokines (includes IL-2, IL-4, IL-7, IL-9, IL-13, and IL-15) and is expressed by activated CD4+ T cells. IL-21 has a private receptor known as IL-21R, which is expressed on T, B, and NK cells. Within the B cell lineage, IL-21 regulates IgG1 production and cooperates with IL-4 for the production of multiple Ab classes in vivo. Initial studies have demonstrated that IL-21 has pleiotropic effects on the proliferation, differentiation, and effector functions of B, T, natural killer, and dendritic cells.

**UniProt ID:** Q9ES17

**Gene ID:** 60505

**Source:** *E. coli*

**Molecular Weight:** 15.1 kDa (130 aa) monomer

**Formulation:** Lyophilized from a sterile filtered solution containing 20 mM NaHCO<sub>3</sub>, pH 8.5.

**Purity:** ≥ 95% determined by reducing and non-reducing SDS-PAGE.

**Endotoxin Level:** ≤ 1 EU/µg by kinetic LAL analysis.

**Biological Activity:** ED<sub>50</sub> ≤ 20 ng/ml, determined by a dose-dependent proliferation of B9 cells.

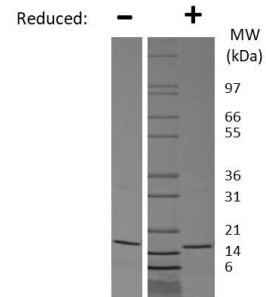
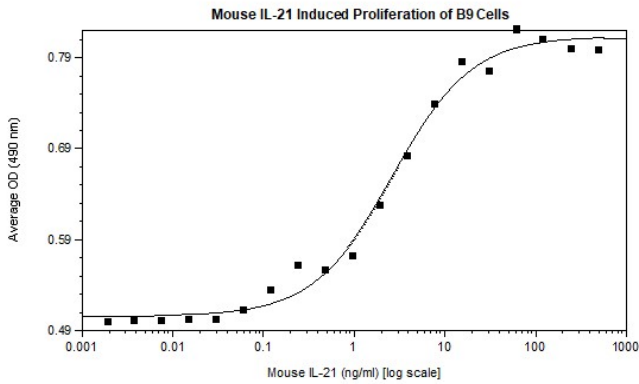
**Specific Activity:** ≥ 5.0 x 10<sup>4</sup> units/mg

**Amino Acid Sequence:** MHKSSPQGPD RLLIRLRHLI DIVEQLKIYE NDLDPELLSA PQDVKGHCEH  
AAFACFQKAK LKPSNPGNKK TFIIDLVAQL RRRLPARRGG KKQKHIKACP  
SCDSYEK RTP KEFLERLKW LQKMIHQHLS

**Reconstitution:** **Centrifuge vial before opening.** When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.

**Storage & Stability:** Upon receipt, store at -20°C to -80°C for up to 1 year. Upon reconstitution, the preparation is stable for up to one month at 2-8°C. For long term storage, prepare working aliquots and store at -20 to -80°C. For maximal stability, dilute to working aliquots in a 0.1% BSA solution.

**Avoid repeated freeze-thaw cycles.**



#### Mouse IL-21 Gel

Figure: 1 ug run under (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Mouse IL-21 is predicted to have a MW of 15.1 kDa.

**NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.**



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