

## 32-1445: mL 12 Recombinant Protein

**Alternative Name :** NKSF,CTL maturation factor (TCMF),Cytotoxic lymphocyte maturation factor (CLMF),TSF,Edodekin-alpha,IL-12.

### Description

Source : HEK-293 Cells. Interleukin-12 Mouse Recombinant produced in HEK 293 cells is a glycosylated disulfide linked heterodimeric polypeptide containing 506 amino acids and having a molecular weight of 75 kDa comprised of disulfide-bonded 35 kDa (p35) and 40 kDa (p40) subunits.The IL-12 is purified by proprietary chromatographic techniques. IL-12 is a heterodimeric cytokine that stimulates the production of interferon gamma from T-cells and natural killer cells, and also induces differentiation of Th1 helper cells. It is an initiator of cell-mediated immunity.

### Product Info

**Amount :** 10 µg

**Purification :** Greater than 95% as determined by SDS-PAGE.

**Content :** The protein was lyophilized from 0.5xPBS, pH 7.5.

**Storage condition :** Lyophilized mouse IL-12 although stable at room temperature for 3 weeks, should be stored below -18°C. Upon reconstitution IL12 should be stored at 4°C between 2-7 days and for future use below -18°C.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

**Amino Acid :**  
p35 Subunit: RVIPVSGPAR CLSQSRNLLK TTDDMVKTAR EKLKHYSC TA EDIDHEDITR DQTSTLKTCL PLELHKNE SC LATRETSSTT RGSCLPPQKT SLMMLTCLGS IYEDLKMYQT EFQAINAALQ NHHHQIILD KGMLVAIDEL MQSLNHNGET LRQKPPVGEA DPYRVKMKLC ILLHAFSTRV VTINRVMGYL SSA.p40 Subunit: MWELEKDVYV VEVDWTPDAP GETVNLCTD PEEDDITWTS DQRHGVI GSG KTLTITVKEF LDAGQYTCHK GGETLSHSHL LLHKKENG IW STEILKNFKN KTLFKCEAPN YSGRFTCSWL VQRNMDLKFN IKSSSSSPDS RAVTCGMASL SAEKVTL DQR DYKYSVSCQ EDVTCPTAEE TLPIELALEA RQQNKYENYS TSFFIRDIIK PDPPKNLQMK PLKNSQVEVS WEYPDSWSTP HSYFSLKFFV RIQRKKEKMK ETEEGCNQKG AFLVEKTSTE VQCKGGNV CV QAQDRYYNSS CSKWACVPCR VRS.

### Application Note

It is recommended to reconstitute the lyophilized murine IL12 in sterile distilled pyrogen free water at 100µg/ml, which can then be further diluted to other aqueous solutions. IL-12 Mouse has full biological activity when compared to standards. The ED50 is determined by the dose-dependent induced expression of CD25 on CD8+ mouse T cells is 10-20 ng/ml corresponding to a specific activity of 50,000-100,000units/mg.

