

Mouse IL 12 Recombinant Protein



RPPB0570

Product Information Protein Information

Product SKU:

RPPB0570

Host:

HEK-293 Cells.

Protein description:

Interleukin-12 Mouse Recombinant produced in Sf9 insect 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.

Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Synonyms:

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

Formulation:

The protein was lyophilized from 0.5xPBS, pH 7.5.

Purity:

Greater than 95% as determined by SDS-PAGE.

Solubility:

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.

Stability:

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 Sequence:

p35 Subunit: RVIPVSGPAR CLSQSRNLLK TTDDMVKTAR ECLKHYSCTA EDIDHEDITR DQTSTLKTCL PLELHKNESCLATRETSSTT RGSCLPQKT SLMMTLCLGS IYEDLKMYQT EFQAINAALQ NHHHQIILD KGMLVAIDEL MQSLNHNGET LRQKPPVGEA DPYRVKMKLC ILLHAFSTRV VTINRVMGYL SSA.p40 Subunit: MWELEKDVYV VEVDWTPDAP GETVNLCTD PEEDDITWTS DQRHGVIGSG KTLTITVKEF LDAGQYTCHK GGETLSHSHL LLHKKENGIW STEILKNFKN KTLKCEAPN YSGRFTCSWL VQRNMDLKFN IKSSSSPDS RAVTCGMASL SAEKVTLDQR DYEKYSVSCQ EDVTCPTAE TLPIALEA RQQNKYENYS TSFFIRDIK PDPPKNLQMK PLKNSQVEVS WEYPDSWSTP HSYFSLKFFV RIQRKKEKMK ETEEGCNQKG AFLVEKTSTE VQCKGGNVCV QAQDRYYNSS CSKWACVPCR VRS.

Biological Activity:

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.