
Product Data Sheet

Product Name: IL 12 Mouse

Cat. No.: GP20554

Batch No.: 1

Product Data

Purity	Greater than 95% as determined by SDS-PAGE.	Source	HEK-293 Cells.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.	Shipping Condition	Shipped at Room temp.
Synonyms	NKSF; CTL maturation factor (TCMF); Cytotoxic lymphocyte maturation factor (CLMF); TSF; Edodekin-alpha; IL-12.		
Amino Acid Sequence	<p>p35 Subunit: RVIPVSGPAR CLSQSRNLLK TTDDMVKTAR ECLKHYSCTA EDIDHEDITR DQTSTLKTCL PLELHKNE SC LATRETSSTT RGSCLPPOKT SLMMTLCLGS IYEDLKMYQT EFQAINAALQ NHHHQIILD KGMLVAIDEL MQSLNHNGET LRQKPPVGEA DPYRVKMKLC ILLHAFSTRV VTINRVMGYL SSA.p40 Subunit: MWELEKDVYV VEVDWTPDAP GETVNLTCDT PEEDDITWTS DQRHGVIGSG KTLTITVKEF LDAGQYTCHK GGETLSHSHL LLHKKENGIW STEILKNFKN KTLFLKCEAPN YSGRFTCSWL VQRNMDLKFN IKSSSSSPDS RAVTCGMASL SAEKVTLDQR DYEKYSVSCQ EDVTCPTAEE TLPIELALEA RQQNKYENYS TSFFIRDIK PDPPKNLQMK PLKNSQVEVS WEYPDSWSTP HSYFSLKFFV RIQRKKEKMK ETEEGCNQKG AFLVEKTSTE VQCKGGNVCV QAQDRYYNSS CSKWACVPCR VRS.</p>		
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.		
Formulation	The protein was lyophilized from 0.5xPBS, pH 7.5.		

Introduction

IL-12 is a heterodimeric cytokine that stimulates the production of IFN γ from T-cells and natural killer cells, and also induces differentiation of Th1 helper cells. It is an initiator of cell-mediated immunity.

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

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.

Background

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.

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