

## 32-1446: rIL 12 Recombinant Protein(Discontinued)

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

### Description

Source : Baculovirus. Interleukin-12 Rat Recombinant produced in Sf9 insect cells is a glycosylated disulfide linked heterodimeric polypeptide containing 503 amino acids and having a molecular weight of 70 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

<b>Amount :</b>	10 µg
<b>Purification :</b>	Greater than 95.0% as determined by SDS-PAGE.
<b>Content :</b>	The protein (1mg/ml) was lyophilized with no additives.
<b>Storage condition :</b>	Lyophilized Interleukin-12 although stable at room temperature for 3 weeks, should be stored desiccated 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.
<b>Amino Acid :</b>	The sequence of the first five N-terminal amino acids was determined and found to be Arg-Val-Ile-Pro-Val at the p35 subunit and Met-Thr-Glu-Leu-Glu at the p40 subunit.

### Application Note

It is recommended to reconstitute the lyophilized Interleukin 12 in sterile 18MΩ-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions. ED50 range = 0.01-0.05 ng/ml corresponding to a specific activity of 20,000,000-100,000,000IU/mg as determined by the dose dependent secretion of IFN-gamma from PHA and IL-2 activated mouse splenocytes that have been costimulated with PMA. Optimal concentration for individual application should be determined by a dose response assay.

