

## 32-1443: IL 12 p40 Plant Recombinant Protein(Discontinued)

**Alternative Name** NKSF2,CTL maturation factor (TCMF),Cytotoxic lymphocyte maturation factor 40 kDa subunit (CLMF p40),TSF,Edodekin-alpha,IL-12 p40,IL-12B,IL-12 subunit p40,NK cell stimulatory factor chain 2.

### Description

Source : Nicotiana benthamiana plant IL-12 p40 human Recombinant produced in Nicotiana benthamiana plant is a glycosylated polypeptide chain containing 312 amino acids, 23-328 aa (molecular formula C<sub>1575</sub>H<sub>2420</sub>N<sub>424</sub>O<sub>490</sub>S<sub>12</sub>).IL-12 p40 is fused to a 6-His-tag at the N-terminal having the total molecular mass of 35.5kDa however as a result of potential glycosylation, the molecular mass could be approximately 40kDa by SDS PAGE under reducing conditions. IL-12 p40 IS purified by standard chromatographic techniques. Active IL-12 is a p70 disulphide-linked dimer composed of p35 and p40 subunits. The protein is a pleiotropic cytokine produced primarily by antigen presenting cells and has multiple effects on T lymphocytes and natural killer cells in terms of stimulating cytotoxicity, proliferation, production of other cytokines and Th1 subset differentiation.

### Product Info

<b>Amount :</b>	5 µg
<b>Purification :</b>	Greater than 97.0% as determined by Analysis by SDS-PAGE.
<b>Content :</b>	Lyophilized from 1mg/ml solution in 20 mM PBS buffer pH 7.4.
<b>Storage condition :</b>	Lyophilized IL-12 p40 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL-12 p40 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>	HHHHHHIWEL KKDVIYVVELD WYPDAPGEMV VLTCDTPEED GITWTLDQSS EVLGSGKTLT IQVKEFGDAG QYTCHKGGEV LSHSLLLLHK KEDGIWSTDI LKDQKEPKNK TFLRCEAKNY SGRFTCWWLT TISTDLTFSV KSSRGSSDPQ GVTGGAATLS AERVRGDNKE YEYSVECQED SACPAEESL PIEVMVDAVH KLKYENYTSS FFIRDIIKPD PPKNLQLKPL KNSRQVEVSW EYPDTWSTPH SYFSLTFCVQ VQGKSKREKK DRVFTDKTSA TVICRKNASI SVRAQDRYYS SSWSEWASVP CS

### Application Note

It is recommended to reconstitute the lyophilized IL-12 p40 in sterile 18MΩ-cm H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.