

## Interleukin-12 p40 Human Recombinant, Plant

<b>Item Number</b>	rAP-0487
<b>Synonyms</b>	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.
<b>Description</b>	IL-12 p40 human Recombinant produced in Nicotiana benthamiana plant is a glycosilated 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
<b>Uniprot Accession Number</b>	P29460
<b>Amino Acid Sequence</b>	HHHHHHIWEL KKDVYVVELD WYPDAPGEMV VLTCDTPEED GITWTLDQSS EVLGSGKTLT IQVKEFG-DAG QYTCHKGGEV LSHSLLLLHK KEDGIWSTDI LKQKEPKNK TFLRCEAKNY SGRFTCWWTLT TISTDLTFSV KSSRGSSDPQ GVTGGAATLS AERVRGDNKE YEYSVECQED SACPAAEESL PIEVMVDAVH KLYENYTSS FFIRDIKPD PPKNLQLKPL KNSRQVEVSW EYPDTWSTPH SYFSLTFCVQ VQGKSKREKK DRVFTDKTSA TVICRKNASI SVRAQDRYYS SSWSEWASVP CS
<b>Source</b>	Nicotiana benthamiana plant
<b>Physical Appearance and Stability</b>	Sterile Filtered White lyophilized (freeze-dried) powder. 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>Formulation and Purity</b>	Lyophilized from 1mg/ml solution in 20 mM PBS buffer pH 7.4. Greater than 97.0% as determined by Analysis by SDS-PAGE.
<b>Application</b>	
<b>Solubility</b>	It is recommended to reconstitute the lyophilized IL-12 p40 in sterile 18M <sup>2</sup> -cm H <sub>2</sub> O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
<b>Biological Activity</b>	
<b>Shipping Format and Condition</b>	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**