

Interleukin-12 p40 Human Recombinant, Plant

Item Number	rAP-0487
Synonyms	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	IL-12 p40 human Recombinant produced in Nicotiana benthamiana plant is a glycosilated polypeptide chain containing 312 amino acids, 23-328 aa (molecular formula C1575H2420N424O490S12). 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
Uniprot Accesion Number	P29460
Amino Acid Sequence	HHHHHHIWIW KKDGVYVVELD WYPDAPGEMV VLTCAPPEED GITWTLQDQSS EVLGSGKTLT IQVKEFG-DAG QYTCHKGGVE LSHSLLLLHK KEDGIWSTDI LKDQKEPKNK TFLRCEAKNY SGRFTCWWLTTISTDLTFSV KSSRGSSDPQ GVTGAATLS AERVRGDNKE YEYSVECQED SACPAAEESLPIEVMDAVH KLKYENYTSS FFIRDIIKPD PPKNLQLKPL KNSRQVEVSW EYPDTWSTPH SYFSLTFCVQVQGKSKREKK DRVFTDKTSA TVICRKNASI SVRAQDRYYSS SWSEWASVP CS
Source	Nicotiana benthamiana plant
Physical Appearance and Stability	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.
Formulation and Purity	Lyophilized from 1mg/ml solution in 20 mM PBS buffer pH 7.4. Greater than 97.0% as determined by Analysis by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized IL-12 p40 in sterile 18MΩ-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	
Shipping Format and Condition	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**