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IL 12 p40 Human, Plant

Catalog #:CYPS-063

For research use only.

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 potential glycosylation, the molecular mass could be approximately 40kDa by SDS PAGE under reducing conditions. IL-12 p40 IS purified by standard chromatographic techniques.

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.

Source: Nicotiana benthamiana plant

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Amino Acid Sequence:HHHHHHIWEL KKDVYVVELD WYPDAPGEMV VLTCDTPEED GITWTLDQSS EVLGSGKTLT IQVKEFGDAG QYTCHKGGEV LSHSLLLLHK KEDGIWSTDI LKDQKEPKNK TFLRCEAKNY SGRFTCWWLT TISTDLTFSV KSSRGSSDPQ GVTCGAATLS AERVRGDNKE YEYSVECQED SACPAAEESL PIEVMVDAVH KLKYENYTSS FFIRDIIKPD PPKNLQLKPL KN

Purity: Greater than 97.0% as determined by Analysis by SDS-PAGE.

Formulation:
Lyophilized from 1mg/ml solution in 20 mM PBS buffer pH 7.4.

Stability:
Lyophilized IL-12 p40 althoμgh 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.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:
It is recommended to reconstitute the lyophilized IL-12 p40 in sterile 18M-cm H2O not less than 100

Introduction:
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.

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