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## 32-6446: IL12 Human, CHO

**Application:** Functional Assay

Alternative Name: 23-219aa (IL12A) / 23-328aa (IL12B), Interleukin 12 (subunit beta/alpha), IL12 His, NKSF1, NKSF, CTL maturation factor (TCMF), Cytotoxic lymphocyte maturation factor (CLMF), TSF, Edodekin-alpha, IL-12.

## **Description**

Source: CHO Cells.

Sterile Filtered White lyophilized (freeze-dried) powder.

interleukin 12 subunit beta/alpha or IL12b/IL12a is a growth factor cytokine which increases the lytic activity of NK/lymphokine-activated killer cells, activated T and NK cells and prompt IFN-gamma production (through resting PBMC). IL12b/IL12a is an essential part to the process of cellular-immunity and activates the differentiation of Th1 cells originates from the precursor T helper cells. The protein is linked to IL23A and creates the IL-23 interleukin, by that, the autoimmune inflammation is induced and autoimmune inflammatory diseases and tumorigenesis are being affected.

Interleukin 12 Human Recombinant is a glycosylated heterodimer containing 503 amino acids (306 amino acid rHulL-12 p40 and the 197 amino acid rHulL-12 p35 subunits) and having a molecular mass of 60kDa. IL12 is purified by proprietary chromatographic techniques.  $\hat{A}$   $\hat{A$ 

## **Product Info**

Amount:  $2 \mu g / 10 \mu g$ 

**Purification:** Greater than 97.0% as determined by analysis by SDS-PAGE.

Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.2.

Content: It is recommended to reconstitute the lyophilized Interleukin 12 in sterile 18M Omega -cm H2O

not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Lyophilized Interleukin 12 although stable at room temperature for 3 weeks, should be stored

**Storage condition :** desiccated below -18°C. Upon reconstitution PDGF BB should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

Amino Acid: IL-12 is a heterodimer of IL-12A and IL-12B linked through a disulfide-bond: >IL-12 ARNLPVATP

DPGMFPCLHH SQNLLRAVSN MLQKARQTLE FYPCTSEEID HEDITKDKTS TVEACLPLEL TKNESCLNSR ETSFITNGSC LASRKTSFMM ALCLSSIYED LKMYQVEFKT MNAKLLMDPK RQIFLDQNML AVIDELMQAL

NFNSETVPOK SSLEEPDFYK TKIKLCILLH AFRIRAVTID RVMSYLNAS. >IL-12B IWELKKDV

YVVELDWYPD APGEMVVLTC DTPEEDGITW TLDQSSEVLG SGKTLTIQVK EFGDAGQYTC HKGGEVLSHS LLLLHKKEDG IWSTDILKDQ KEPKNKTFLR CEAKNYSGRF TCWWLTTIST DLTFSVKSSR GSSDPQGVTC GAATLSAERV RGDNKEYEYS VECQEDSACP AAEESLPIEV MVDAVHKLKY ENYTSSFFIR DIIKPDPPKN LQLKPLKNSR QVEVSWEYPD TWSTPHSYFS LTFCVQVQGK SKREKKDRVF TDKTSATVIC RKNASISVRA

QDRYYSSSWS EWASVPCS.

## **Application Note**

Determined by cell proliferation assay using PHA-stimulated human T lymphoblasts. The ED50 for this effect is 0.01-0.05 ng/mL corresponding to a specific activity of 1.1  $\tilde{A} = 1.1 \text{ A} = 1.1 \text{$