

Human IL12 Recombinant Protein



RPPB0565

Product Information Protein Information

Product SKU:

RPPB0565

Host:

CHO Cells.

Protein description:

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

Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Synonyms:

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.

Formulation:

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

Purity:

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

Solubility:

It is recommended to reconstitute the lyophilized Interleukin 12 in sterile 18MΩ-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Stability:

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

IL-12 is a heterodimer of IL-12A and IL-12B linked through a disulfide-bond: >IL-12 ARNLPVATP DPGMFPCLLH SQNLLRAVSN MLQKARQTL FYPCTSEEID HEDITKDKTS TVEACLPLEL TKNESCLNSR ETSFITNGSC LASRKTSFMM ALCLSSIIYED LKMYQVEFKT MNAKLLMDPK RQIFLDQNM L AVIDELMQAL NFNSETVPQK SSLEEDPFYK TKIKLCILLH AFRIRAVTID RVMSYLNAS. >IL-12B IWELKKDV YVVELDWYPD APGEMVVLTC DTPEEDGITW TLDQSSEVLG SGKTLTIQVK EFGDAGQYTC HKGGVLSHS LLLLHKKEG IWSTDILKDQ KEPKNKTLR CEAKNYSGRF TCWWLTIST DLTFVKSSR GSSDPQGVTC GAATLSAERV RGDNKEYEYS VECQEDSACP AAESLPIEV MDAVHKLKY ENYTSSFFIR DIIKPDPPKN LQLKPLKNSR QVEVSWEPD TWSTPHSYFS LTFCVQVQ GK SKREKKDRVF TDKTSATVIC RKNASISVRA QDRYSSSSWS EWASVPCS.

Biological Activity:

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 × 10⁴ units/µg, which is calibrated against rHuIL-12 WHO Standard.