

## 32-1444: IL12 His Recombinant Protein

**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 : Baculovirus. IL12 Human Recombinant produced in a baculovirus expression system is a glycosylated disulfide linked (through cysteines in bold) heterodimer comprised of IL12A (23-219aa, total of 203 aa, MW 23.3kDa) and IL12B (23-328aa, total of 306 aa, MW 34.6kDa), having a total predicted molecular mass of 57.9kDa (Molecular weight on SDS-PAGE will appear higher). IL12A is fused to a 6 amino acid His-Tag at C-terminus and purified by proprietary chromatographic techniques. IL-12 is a heterodimeric cytokine that stimulates the production of interferon gamma from T-cells and natural killer cells, and also induces differentiation of Th1 helper cells. IL-12 is an initiator of cell-mediated immunity.

### Product Info

<b>Amount :</b>	10 µg
<b>Purification :</b>	Greater than 85.0% as determined by SDS-PAGE.
<b>Content :</b>	IL12 protein solution (0.2mg/ml) containing Phosphate buffered saline (pH7.4), 20% glycerol and 1mM EDTA.
<b>Storage condition :</b>	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
<b>Amino Acid :</b>	IL12A(p35):RNLPVATPDP GMFPC LHHSQ NLLRAVS NML QKARQTLEFY PCTSEEIDHE DITKDKTSTV EACLPLELTK NESCLNSRET SFITNGSCLA SRKTSFMMAL CLSSYEDLK MYQVEFKTMN AKLLMDPKRQ IFLDQNM LAV IDELMQALNF NSETVPQKSS LEEPDFYKTK IKLCILLHAF RIRAVTIDRV MSYLNASHHH HHH. IL12B(p40):IWELKKDVYV VELD WYPDAP GEMVVLTC DT PEEDGITWTL DQSSEVLGSG KTLTIQVKEF GDAGQYTCHK GGEVLSHSL L LHKKEDGIW STDILKDQKE PKNKTF LRC E AKNYSGRFTC WWLTTISTDL TFSVKSSRGS SDPQGVTCGA ATLSAERV RG DNKEYEYSVE CQEDSAC PAA EESLPIEVMV DAVHKLKYEN YTSSFFIRDI IKPDPPKNLQ LKPLKNSRQV EVSWEYPDTW STPHSYFSLT FCVQVQGKSK REKKDRVFTD KTSATVICRK NASISVRAQD RYYSSSWSEW ASVPCS.

### Application Note

The activity is determined by the IFN-g ELISA in a using NK-92 cell. The ED50 for this effect is less than or equal to 0.03 ng/ml.

