

IL-12p80, Human Recombinant

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|----------------------------|---|-------|
| CATALOG #: | 7104-10 | 10 µg |
| | 7104-50 | 50 µg |
| ALTERNATE NAMES: | NKSF, CTL maturation factor (TCMF), Cytotoxic lymphocyte maturation factor (CLMF), TSF, Edodekin-alpha, IL-12. | |
| SOURCE: | (BTI-Tn-5B1-4) Hi-5 Insect cells | |
| PURITY: | ≥ 95% by SDS-PAGE gel and HPLC analyses | |
| MOL. WEIGHT: | 80 kDa | |
| ENDOTOXIN LEVEL: | < 0.1 ng/µg of protein (<1EU/µg). | |
| FORM: | Lyophilized | |
| FORMULATION: | Sterile filtered through a 0.2 micron filter. Lyophilized from 10 mM Sodium Acetate - pH 5.6, 90 mM NaCl, 2% Sucrose and 4.0% Mannitol. | |
| STORAGE CONDITIONS: | Store at -20°C. After reconstitution, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles. | |

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

DESCRIPTION:

IL-12 is a disulfide-linked heterodimeric protein (p70), composed of two subunits, p35 and p40, which are encoded by two different genes. Accumulating data indicate that p40 secretion precedes that of IL-12 expression. In addition, to its ability to covalently bind to p35 to form IL-12, p40 can bind to p19 to form IL-23, or can form a homodimer designated as IL-12 p80. Elevated levels of IL-12 p80 are correlated with macrophage recruitment and increased inflammation in asthma and respiratory viral infection models. Recombinant human IL-12 p80 is an 80.0 kDa disulfide linked homodimer consisting of two p40 chains of IL-12.

AMINO ACID SEQUENCE:

IWELKKDVYV VELDWPDPAP GEMVVLTCDT PEEDGITWTL DQSSEVLGSG
KTLTIQVKEF GDAGQYTCHK GGEVLSHSL LLHKKEDGIW STDILKDQKE
PKNKTFLRCE AKNYSGRFTC WWLTTISTDL TFSVKSSRGS SDPQGVTCGA
ATLSAERVRG DNKEYEYSVE CQEDSACPAE EESLPIEVMV DAVHKLKYEN
YTSSFFIRDI IKPDPKLNQ LKPLKNSRQV EVSWEYPDTW STPHSYFSLT
FCVQVQGKSK REKKDRVFTD KTSATVICRK NASISVRAQD RYYSSSWSEW
ASVPCS

RELATED PRODUCTS:

- Human Cell^{exp} Human Recombinant IL-12 (Cat # 6467-10, -50)
- IL-12, human recombinant (Cat # 4161-10, -100)
- IL-12, murine recombinant (Cat # 4119-10, -100)
- IL-12, rat recombinant (Cat # 4163-10, -100)
- IL-12p40, human recombinant (Cat # 4732-10, -50 -1000)
- IL-12 Antibody (Cat # 5162-200)
- IL-12p40 Antibody (Cat # 5732-100)

FOR RESEARCH USE ONLY! Not to be used in humans.