

32-1439: IL 12 Recombinant Protein

Alternative Name : NKSF, CTL maturation factor (TCMF), Cytotoxic lymphocyte maturation factor (CLMF), TSF, Edodekin-alpha, IL-12.

Description

Source : HEK. Interleukin-12 Human Recombinant produced in HEK cells is a glycosylated heterodimer, having a total molecular weight of 57kDa. The IL12 is 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

Amount : 10 µg
Purification : Greater than 95% as observed by SDS-PAGE.
Content : IL12 was lyophilized from a 0.2µm filtered solution containing 1xPBS.
Storage condition : Lyophilized IL-12 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL12 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.
Amino Acid : IL-12 is a heterodimer of IL-12A and IL-12B linked through a disulfide-bond between cysteines in red in sequences below. >IL-12A
RNLPVATPDPMFPCLLHHSQNLRAVSNMLQKARQTLEFYPTSEEIDHEDITKDKTSTVEACLPL
ELTKNESCLNSRETSFITNGSCLASRKTSFMMALCLSSIEDLKMYQVEFKTMNAKLLMDPKRQIFL
DQNMLAVIDELMQALNFNSETVPQKSSLEEPDFYKTKIKLCILLHAFRIRAVTIDRVMSYLNAS.
>IL-12B
IWELKKDVYVVELDWYDPDAPGEMVVLTCDTPEEDGITWTLQSSSEVLGSGKTLTIQVKEFGDAGQ
YTCHKGGVLSHSLLLHKKEDGIWSTDILKDQKEPKNKTFLRCEAKNYSGRFTCWLLTITSTDLTF
SVKSSRGSSDPQGVTCGAATLSAERVGRDNKEYEYSVEQEDSACPAEESLPIEVMVDAVHKLK
YENYTSFFIRDIIKPDPPKNLQLKPLKNSRQVEVSWEYPTWSTPHSYFSLTFCVQVQGGKSKREK
KDRVFTDKTSATVICRKNASISVRAQDRYSSSWSEWASVPCS.

Application Note

It is recommended to reconstitute the lyophilized IL12 in sterile PBS containing 0.1% endotoxin-free recombinant HSA. The specific activity was determined by the dose-dependent release of IFN-gamma from the human NK92 cell line in presence of 20ng/mL rIL-2. The EC50 is 0.5ng/ml.

