9051 Mira Mesa Blvd, #910094
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IL-12 Human

Interleukin-12 Human Recombinant
CYK0363

Product Overview

Name	IL-12 Human

Description

Interleukin-12 Human Recombinant

Synonyms

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

Introduction

IL-12 is a heterodimeric cytokine that stimulates the production of IFNgamma from T-cells and natural killer cells, and also induces differentiation of Th1 helper cells. IL-12 is an initiator of cell-mediated immunity.

Source

HEK.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

IL12 was lyophilized from a 0.2 μm filtered solution containing 1xPBS.

Stability

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.

Purity

Greater than 95% as obsereved by SDS-PAGE.

Amino acid sequence

IL-12 is a heterodimer of IL-12A and IL-12B linked through a disulfide-bond between cysteines in red in sequences below. >IL-12 A RNLPVATPDPGMFPCLHHSQNLLRAVSNMLQKARQTLEFYPCTSEEIDHEDITKDKTSTVEACLP LELTKNESCLNSRETSFITNGSCLASRKTSFMMALCLSSIYEDLKMYQVEFKTMNAKLLMDPKRQ IFLDQNMLAVIDELMQALNFNSETVPQKSSLEEPDFYKTKIKLCILLHAFRIRAVTIDRVMSYLNAS. >IL-12B IWELKKDVYVVELDWYPDAPGEMVVLTCDTPEEDGITWTLDQSSEVLGSGKTLTIQVKEFGDAG QYTCHKGGEVLSHSLLLLHKKEDGIWSTDILKDQKEPKNKTFLRCEAKNYSGRFTCWWLTTISTD LTFSVKSSRGSSDPQGVTCGAATLSAERVRGDNKEYEYSVECQEDSACPAAEESLPIEVMVDAV

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HKLKYENYTSSFFIRDIIKPDPPKNLQLKPLKNSRQVEVSWEYPDTWSTPHSYFSLTFCVQVQGK SKREKKDRVFTDKTSATVICRKNASISVRAQDRYYSSSWSEWASVPCS.

Biological Activity

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 EC 50 is 0.5ng/ml.

Solubility

It is recommended to reconstitute the lyophilized IL12 in sterile PBS containing 0.1% endotoxin-free recombinant HSA.

Precautions

IL-12 Human is for research use only and not for use in diagnostic or therapeutic procedures.