

Human IL-12 Recombinant Protein



RPPB0564

Product Information Protein Information

Product SKU:

RPPB0564

Host:

HEK.

Protein description:

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.

Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Synonyms:

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

Formulation:

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

Purity:

Greater than 95% as observed by SDS-PAGE.

Solubility:

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

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.

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

ARNLPVATPDPGMFPCLHHSQNLRAVSNMLQKARQTLFYPCTSEEIDHEDITKDKTSTVEACLPLELTKNESCLN
SRETSFITNGSCLASRKTSFMMALCLSSIIYDLKMYQVEFKTMNAKLLMDPKRQIFLDQNMMLAVIDELMQALNFNS
ETVPQKSSLEEPDFYKTKIKLCILLHAFRIRAVTIDRVMSYLNAS.

>IL-12B

IWELKKDVYVVELDWYPDAPGEMVVLTCDTPEEDGITWTLDQSSEVLGSGKTLTIQVKEFGDAGQYTCHKGGVLS
HLLLLHKKEDGIWSTDILKDQKEPKNKTLRCEAKNYSRGRFTCWLLTISTDLTFSVKSSRGSSDPQGVTCGAATLS
AERVGRDNKEYEYSVEQEDSACPAAEESLPIEVMVDAVHKLKYENYSSFFIRDIIKPDPPKNLQKPLKNSRQVEVS
WEYPDTWSTPHSYFSLTFCVQVQGSKREKDRVFTDKTSATVICRKNASISVRAQDRYSSSWSEWASVPCS.

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 EC50 is 0.5ng/ml.