CHASELECTION

Recombinant HumanInterleukin-12/ IL-12Cata log Number: CYG071F0XXX、

CY071F0XXX

Synonym:

Interleukin-12, NKSF, CTL MaturationFactor (TC MF), Cytotoxic Lymphocyte MaturationFactor (CL MF), TSF

Source: CHO cells proteinStr

Structure:

The protein carries no tag.

Assession Number:p35: P29459 p40 : P29460I Gene ID:p35: 3592 p40: 3593

AA sequence:

p35 Subunit:

RNLPVATPDPGMFPCLHHSQNLLRAVSNMLQKARQTLE FYPCTSEEIDHEDITKDKTSTVEACLPLELTKNESCLNS RETSFITNGSCLASRKTSFMMALCL

SSIYEDLKMYQVEFKTMNAKLLMDPKRQIFLDQNMLA VIDELMQALNFNSETVPQKSSLEEPDFYKTKIKLCILLH AFRIRAVTIDRVMSYLNAS p40 Subunit:

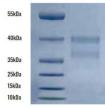
IWELKKDVYVVELDWYPDAPGEMVVLTCDTPEEDGIT WTLDQSSEVLGSGKTLTIQVKEFGDAGQYTCHKGGEVL SHSLLLLHKKEDGIWSTDILKDQKEPKNKTFLRCEAKN YSGRFTCWWLTTISTDLTFSVKSSRGSSDPQGVTCGAAT LSAERVRGDNKEYEYSVECQEDSACPAAEESLPIEVMV DAVHKLKYENYTSSFFIRDIIKPDPPKNLQLKPLKNSRQ VEVSWEYPDTWSTPHSYFSLTFCVQVQGKSKREKKDR VFTDKTSATVICRKNASISVRAQDRYYSSSWSEWASVPC S

Molecular Weight :

Approximately 75kDa, consisting of a 306 amino acid resi due p40 subunit and a 197 amino acid residue p35 subunit.

Purity: ≥95 % as determined by SDS-PAGE & HPLC

SDS-PAGE



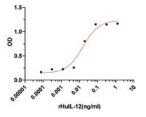
Recombinant human IL-12 was separated by SDS-PA GE under reduced (R) conditions and showed R-band s at 40 and 35 kDa, corresponding to the molecular w eights of the subunits of P40 and P35, respectively

Endotoxin: $< 0.1 \text{ EU/}\mu g$

Formulation:

PBS pH7.4, 0.2µm Membrane filtration for sterilization

Biological Activity:



The ED₅₀ as determined by a cell proliferation assay using PHA-activated human T lymphoblasts is < 0.05 ng/mL, c orresponding to a specific activity of $> 2.0 \times 10^7$ Units/mg.

Reconstitution:

 Before opening, please briefly centrifuge the contents to the botto m;

 It is recommended to initially dissolve in sterile deionized water t o an appropriate concentration (recommended concentration is 0.1-1 mg/ml);

3. If the above storage liquid needs to be stored, it should be divided into small quantities and equal parts (not less than $20 \,\mu$) If further di lution is required, it should be stored in a suitable buffer containing c arrier protein.

Shipping & Storage:

The product is shipped with blue ice.

If long-term storage is required, this product should be stored at \leq -20 °C, please avoid repeated freeze-thaw cycles.

1. Dry powder can be stored at \leq -20 °C for at least 24 months;

2. After reconstitution, it can be stored for 1 month under sterile conditions at 2-8 °C ;

3. After reconstitution, it can be stored for 12 months under sterile conditions at $-20 \sim -70^{\circ}$ C.

Introduction:

IL-12 is a heterodimeric cytokine containing p35 and p40 sub units, secreted by monocytes, macrophages, dendritic cells, ne utrophils, Langerhans cells,keratinocytes, microglia, and perip heral B cells.In humans, the p40 subunit can also bind to the p 19 subunit to form IL-23. IL-12 transmits signals through rece ptor complexes composed of IL-12R 1 and IL-12R 2. It pro motes Th1 immune response by inducing the secretion of IF N - by NK cells, T cells, and macrop

hages, as well as enhancing NK and T cell-mediated cytotoxic ity. In general, it also collaborates with IL-18 to produceTh1 memory cells.