

Recombinant Human, IL12 p70 / Interleukin-12 p70,

Animal Free & Carrier Free

Cat #: C-CYP396

Size: 5µg, 20µg, 100µg, 500µg, 1mg

Shipping: Blue Ice

Product Overview

Active IL-12 is a p70 disulfide-linked dimer composed of p35 and p40 subunits. The protein is a pleiotropic cytokine produced primarily by antigen presenting cells and has multiple effects on T lymphocytes and natural killer cells in terms of stimulating cytotoxicity, proliferation, production of other cytokines and Th1 subset differentiation.

Product Information

Source: HEK293.

Purity: >98% as determined by SDS-PAGE. Ni-NTA chromatography.

Biological Activity: Measure by its ability to induce IFN gamma secretion in PHA-activated human peripheral blood lymphocytes (PBMC). The ED50 for this effect is 0.05-0.2 ng/mL.

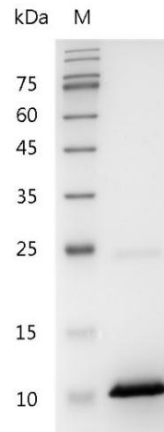
Endotoxin: <0.1EU per 1µg of the protein by the LAL method.

Amino acid sequence:

IWELKKDVYVVELDWYPDAPGEMVVLTCDTPEEDGITWTLQSSSEVLGSGKTLTIQVKEFGDAGQYTCHKGGEVLSHLLLLHKKEDGIW
STDILKDQKEPKNKTFLRCEAKNYSGRFTCWLLTISTDLTFSVKSSRGSSDPQGVTCGAATLSAERVRGDNKEYEYSVEQCQEDSACPAEE
SLPIEVMVDAVHKLKYENYSSFFIRDIIKPDPPKNLQLKPLKNSRQVEVSWEYPDTWSTPHSYFSLTFCVQVQGKSKREKKDRVFTDKTSAT
VICRKNASISVRAQDRYSSSWSEWASVPCSGSTSGSGKPGSGEGSTKGRNLPVATPDPGMFPCLHHSQNLLRAVSNMLQKARQTLEFYF
CTSEEIDHEDITKDKTSTVEACLPLELTKNESCLNSRETSFITNGSCLASRKTSFMMALCLSSIYEDLKMYQVEFKTMNAKLLMDPKRQIFLD
QNMLAVIDELMQALNFNSETVPQKSSLEEDFYKTKIKLCILLHAFRIRAVTIDRVMSYLNASHHHHHH with polyhistidine tag at the

C-terminus.

Formulation: Lyophilized from a sterile filtered aqueous solution in 1×PBS, pH 7.4.



SDS-PAGE analysis of recombinant human IL-12(p70), His Tag, HEK293

Usage Method

1. Before opening, it is recommended to centrifuge at 3000-3500 rpm for 5 minutes.
2. Reconstitute to a concentration of 0.1-1.0 mg/mL in sterile distilled H₂O. Allow the solution to sit at room temperature for at least 20 minutes to ensure complete dissolution. Avoid vigorous vortexing.
3. The reconstituted solution can be stored at 2-8°C for up to 1 week.
4. For long-term storage, it is recommended to further dilute the solution with a carrier protein (such as 0.1% BSA, 10% FBS, or 5% HSA) to a concentration of no less than 10 µg/mL and aliquot for storage at -20°C to -80°C for 3 to 6 months. If serum-free experiments are required, a 5% trehalose solution can be used as a carrier instead. Avoid repeated freeze-thaw cycles.

Storage

Physical Appearance	Storage	Stability
Lyophilized powder	-20°C to -80°C	1 year
Reconstitution (initial)	2°C to 8°C	Less than 1 week
Reconstitution (after dilution)	-20°C to -80°C	3 to 6 months

Note

The reagent is only used in the field of scientific research, not suitable for clinical diagnosis or other purposes.