

Recombinant Human, IL12 p40 / Interleukin-12 p40,

**Animal Free & Carrier Free** 

Cat #: C-CYP375

Size: 5µg, 20µg, 100µg, 500µg, 1mg

Shipping: Blue Ice

**Product Overview** 

Active IL-12 is a p70 disulfidelinked 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: Escherichia Coli.

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

Biological Activity: Measure by its ability to induce cell proliferation in PHA-activated human peripheral blood

lymphocytes (PBMC) using a concentration range of 5-50 ng/mL. Note: Results may vary from different PBMC donors.

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

Amino acid sequence:

MIWELKKDVYVVELDWYPDAPGEMVVLTCDTPEEDGITWTLDQSSEVLGSGKTLTIQVKEFGDAGQYTCHKGGEVLSHSLLLLHKKEDGI

WSTDILKDQKEPKNKTFLRCEAKNYSGRFTCWWLTTISTDLTFSVKSSRGSSDPQGVTCGAATLSAERVRGDNKEYEYSVECQEDSACPAA

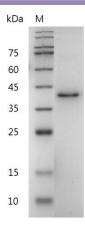
<u>EESLPIEVMVDAVHKLKYENYTSSFFIRDIIKPDPPKNLQLKPLKNSRQVEVSWEYPDTWSTPHSYFSLTFCVQVQGKSKREKKDRVFTDKTS</u>

ATVICRKNASISVRAQDRYYSSSWSEWASVPCS with polyhistidine tag at the C-terminus.

Formulation: Lyophilized from a sterile filtered aqueous solution in 1×PBS, pH 8.0.







SDS-PAGE analysis of recombinant human IL-12 p40

## **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  $H_2O$ . 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  $\mu$ g/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.

