

Human IL-12 (p70), His Tag, HEK293

Catalog Number	LDG006PHM
Package	5 µg / 20 µg / 100 µg / Customized package

For full product information, images and publications, please visit [our website](#).



Specifications

Species of Origin

Human

Expression system

HEK293

Affinity Tag

His Tag (C-term)

Buffer

Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

Purity

>98% as determined by SDS-PAGE analysis.

Molecular weight

The protein has a calculated MW of 59.55 kDa.
The protein migrates as 63-75 kDa under reducing condition (SDS-PAGE analysis).

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 level

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

Form

Lyophilized

Background

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Background

Interleukin 12 p70 (IL-12 p70) is an interleukin which is major secreted from immune cells like dendritic cells, macrophages and neutrophils. IL-12 p70 is a 58.5 kDa protein containing 527 amino acid residues which is composed by two subunits (IL-12 p35 and IL-12 p40). IL-12 p70 induces the cytotoxic activity of immune cells like NK cells and T cells. IL-12 p70 binds its receptor (IL-12R β 1 and IL-12R β 2) that activates the Jak/STAT signaling pathway. IL-12 p70 also plays an important role in cancer model which inhibits the formation of new blood vessels through the production of IFN γ .

Uniprot ID

P29459
P29460

Synonyms

Cytotoxic lymphocyte maturation factor 40 kDa subunit, CLMF p40, IL-12 subunit p40, NK cell stimulatory factor chain 2, NKSF2

Sequence Note

p35 : Arg 23 - Ser 219 (IL-12A)
p40 : Ile 23 - Ser 328 (IL-12B)

Instruction

Reconstitution

It is recommended to reconstitute the lyophilized protein in sterile H₂O to a concentration of 200 μ g/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

Stability & Storage

This product is stable after storage at:

- -20°C for 12 months in lyophilized state from date of receipt.
- -20°C or -80°C for 1 month under sterile conditions after reconstitution.

Avoid repeated freeze/thaw cycles.

Shipping

The product is shipped with polar packs. Upon receipt, store it immediately at -20°C or lower for long term storage.

Image

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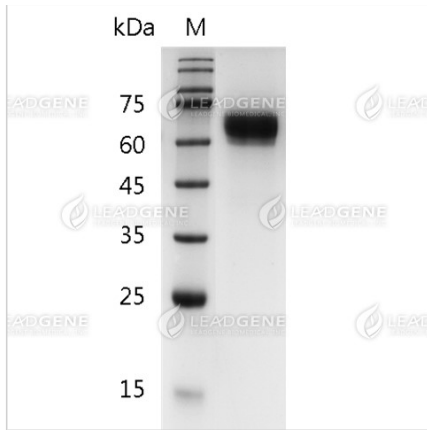
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SDS-PAGE analysis of recombinant human IL-12 (p70).

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