

Recombinant Human IL-12/IL-12A&IL-12B Protein

Catalog No.: RP01232S

Sequence Information

Species **Gene ID**
Human 3592&3593

Swiss Prot **Tags**
P29459&P29460 C-His

Synonyms

CLMF, IL12, p70, Interleukin-12,
IL12A, P35, NKSF

Product Information

Source **Purification**
HEK293 cells ≥ 95% as
determined by
SDS-PAGE.

Calculated MW / Observed MW

58.38 kDa 60-75 kDa

Endotoxin

< 0.01 EU/μg of the protein by LAL
method

Formulation

Lyophilized from a 0.22 μm filtered
solution of PBS, pH 7.4.

Reconstitution

Centrifuge the vial before opening.
Reconstitute to a concentration of
0.1-0.5 mg/mL in sterile distilled
water. Avoid vortex or vigorously
pipetting the protein. For long
term storage, it is recommended
to add a carrier protein or stabilizer
(e.g. 0.1% BSA, 5% HSA, 10% FBS
or 5% Trehalose), and aliquot the
reconstituted protein solution to
minimize free-thaw cycles.

Background

IL-12 is a cytokine that is secreted by activated phagocytes and dendritic cells and that induces interferon-γ production by natural-killer and T lymphocytes. IL-12 is a 70 kDa heterodimer composed of a 35 kDa subunit (IL-12A p35) and a 40 kDa subunit (IL-12B p40). IL-12 is known as a T cell-stimulating factor, which can stimulate the growth and function of T cells. IL-12 plays an important role in the activities of natural killer cells and T lymphocytes. IL-12 also has anti-angiogenic activity, which means it can block the formation of new blood vessels. IL-12 has been shown to play a critical role in the pathogenesis of a variety of immune-related diseases.

Basic Information

Description

Recombinant Human IL-12/IL-12A&IL-12B Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (IL12B (Ile23-Ser328)-3 (GGGGS) IL12A(Arg23-Ser219)) of Human IL-12/IL-12A&IL-12B (Accession #) fused with a His tag at the C-terminus.

Activity

Measured by its ability to induce Interferon gamma secretion by human natural killer lymphoma NK-92 cells. The ED₅₀ for this effect is 0.94-3.75 ng/mL, corresponding to a specific activity of 2.67×10⁵~1.06×10⁶ units/mg.

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

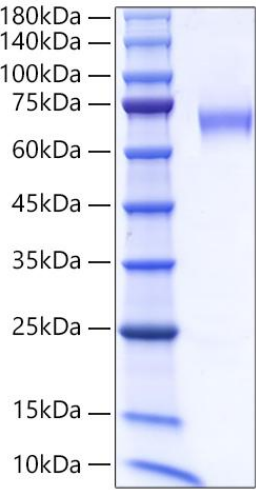
Contact

☎ | 400-999-6126

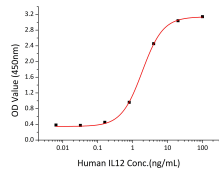
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Validation Data



Recombinant Human IL-12/IL-12A&IL-12B Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Recombinant Human IL-12/IL-12A&IL-12B Protein induce Interferon gamma secretion by human natural killer lymphoma NK-92 cells. The ED_{50} for this effect is 0.94-3.75 ng/mL, corresponding to a specific activity of $2.67 \times 10^5 \sim 1.06 \times 10^6$ units/mg.