

## PRODUCT INFORMATION

<b>Target</b>	IL12A and IL12B
<b>Synonyms</b>	CLMF;IL-12A;NFSK;NKSF1;P35 and CLMF;CLMF2;IL-12B;IMD28;IMD29;NKSF;NKSF2
<b>Description</b>	Recombinant Human IL12A Protein with C-terminal human Fc tag and Human IL12B Protein with C-terminal 6×His tag
<b>Delivery</b>	In Stock
<b>Uniprot ID</b>	P29459;P29460
<b>Expression Host</b>	HEK293
<b>Tag</b>	C-Human Fc and 6×His Tag
<b>Molecular Characterization</b>	IL12A(Arg23-Ser219) hFc(Glu99-Ala330)and IL12B(Ile23-Ser328) 6×His tag
<b>Molecular Weight</b>	The protein has a predicted molecular mass of 48.7 and 35.5 kDa after removal of the signal peptide.
<b>Purity</b>	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
<b>Formulation &amp; Reconstitution</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
<b>Storage&amp;Shipping</b>	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
<b>Background</b>	Interleukin 12 (IL12) is also known as p70, and is an interleukin that is naturally produced by dendritic cells, macrophages and human B-lymphoblastoid cells (NC-37) in response to antigenic stimulation.IL12 is a heterodimeric cytokine, containing IL-12A (p35) and IL-12B (p40). IL-12 is involved in the differentiation of naive T cells into Th1 cells. It is known as a T cell-stimulating factor, which can stimulate the growth and function of T cells. It stimulates the production of IFN- $\gamma$ and TNF- $\alpha$ from T cells and NK cells, and reduces IL-4 mediated suppression of IFN- $\gamma$ . 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.
<b>Usage</b>	Research use only
<b>Conjugate</b>	Unconjugated



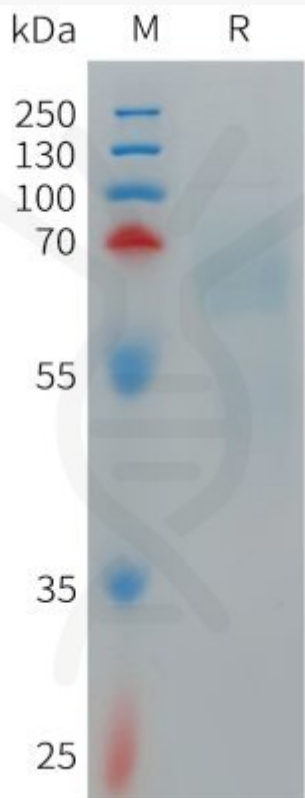


Figure 1. Human IL12A & IL12B Heterodimer Protein, hFc Tag & His Tag on SDS-PAGE under reducing condition.

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