Human IL12A and IL12B Heterodimer Protein, hFc Tag and His Tag

Cat. No. PME101266

DIMA BIOTECH

PRODUCT INFORMATION

Target	IL12A and IL12B
Synonyms	CLMF;IL-12A;NFSK;NKSF1;P35 and CLMF;CLMF2;IL-12B;IMD28;IMD29;NKSF;NKSF2
Description	Recombinant Human IL12A Protein with C-terminal human Fc tag and Human IL12B Protein with C-terminal 6×His tag
Delivery	In Stock
Uniprot ID	P29459;P29460
Expression Host	HEK293
Tag	C-Human Fc and 6×His Tag
Molecular Characterization	IL12A(Arg23-Ser219) hFc(Glu99-Ala330)and IL12B(Ile23-Ser328) 6×His tag
Molecular Weight	The protein has a predicted molecular mass of 48.7 and 35.5 kDa after removal of the signal peptide.
Purity	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution	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.
Storage&Shipping	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.
Background	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-γ and TNF-a from T cells and NK cells, and reduces IL-4 mediated suppression of IFN-γ. 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.
Usage	Research use only
Conjugate	Unconjugated

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Address: Wuhan institute of Biotechnology B7, Biolake No.666 Gaoxin Road, Wuhan, Hubei, China
Telephone: +1 2409940618(USA)
/+86-18062749453(China)
/+86-400-006-0995(China)

Email: info@dimabio.com
Website: www.dimabio.com

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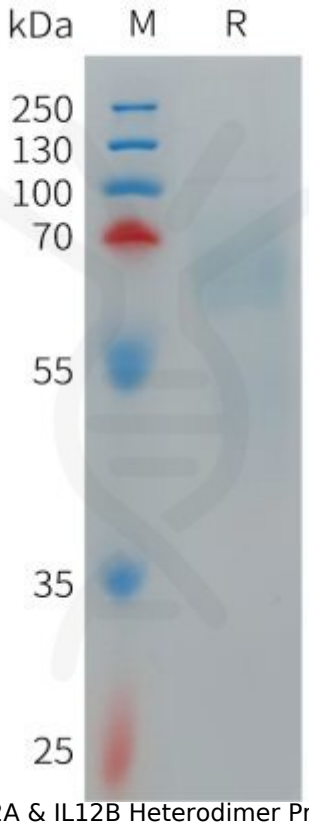


Figure 1.Human IL12A & IL12B Heterodimer Protein, hFc Tag & His Tag on SDS-PAGE under reducing condition.

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