



[Go to Product page](#)

Datasheet for ABIN7491453

IL12 Protein (AA 23-219) (Fc-His Tag)

1 Image

Overview

Quantity:	100 µg
Target:	IL12
Protein Characteristics:	AA 23-219
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IL12 protein is labelled with Fc-His Tag.

Product Details

Purpose:	Recombinant Human IL12A Protein with C-terminal human Fc tag and Human IL12B Protein with C-terminal 6xHis tag
Specificity:	IL12A (Arg23-Ser219) hFc (Glu99-Ala330) and IL12B (Ile23-Ser328) 6xHis tag
Characteristics:	Extracellular Domain Protein
Purification:	Purified from cell culture supernatant by affinity chromatography
Purity:	The purity of the protein is greater than 95 % as determined by SDS-PAGE and Coomassie blue staining.

Target Details

Target:	IL12
Alternative Name:	IL12A & IL12B (IL12 Products)

Target Details

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- α 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.

Molecular Weight: predicted molecular mass of 48.7 and 35.5 kDa after removal of the signal peptide.

UniProt: [P29459](#), [P29460](#)

Pathways: [JAK-STAT Signaling](#), [TLR Signaling](#), [Cellular Response to Molecule of Bacterial Origin](#), [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#), [Activated T Cell Proliferation](#), [Cancer Immune Checkpoints](#), [Inflammasome](#)

Application Details

Restrictions: For Research Use only

Handling

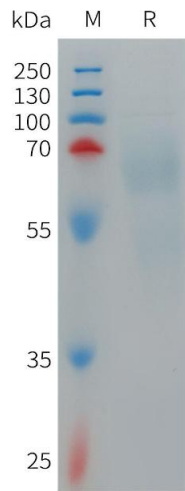
Format: Lyophilized

Buffer: Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose is added as protectants before lyophilization.

Storage: -20 °C, -80 °C

Storage Comment: 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.

Expiry Date: 12 months



SDS-PAGE

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