

Datasheet for ABIN2181328

**IL12 Protein (AA 23-328) (His tag,DYKDDDDK Tag)****3** Images[Go to Product page](#)

## Overview

Quantity:	50 µg
Target:	IL12
Protein Characteristics:	AA 23-328
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This IL12 protein is labelled with His tag,DYKDDDDK Tag.

## Product Details

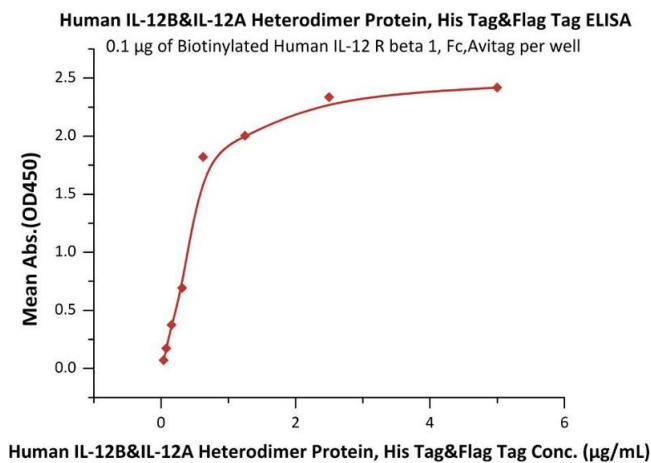
Brand:	ActiveMax®
Sequence:	AA 23-328
Characteristics:	The heterodimer Human IL-12B & IL-12A is produced by co-expression of IL-12B and IL-12A, has a calculated MW of 36.6 kDa (IL-12B) and 23.8 kDa (IL-12A). Subunit IL-12B is fused with his tag at the C-terminus and subunit IL-12A is fused with flag tag at the C-terminus. The predicted N-terminus is Ile 23 (IL12B) and Arg 23 (IL12A). The reducing (R) heterodimer protein migrates as 33-47 kDa due to glycosylation.
Purity:	>90 % as determined by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

## Target Details

Target:	IL12
Alternative Name:	IL-12 ( <a href="#">IL12 Products</a> )
Background:	<p>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-<math>\gamma</math> and TNF-<math>\alpha</math> from T cells and NK cells, and reduces IL-4 mediated suppression of IFN-<math>\gamma</math>. 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.</p>
Molecular Weight:	36.6 kDa (IL12B) and 23.8 kDa (IL12A)
Pathways:	<a href="#">JAK-STAT Signaling</a> , <a href="#">TLR Signaling</a> , <a href="#">Cellular Response to Molecule of Bacterial Origin</a> , <a href="#">Regulation of Leukocyte Mediated Immunity</a> , <a href="#">Positive Regulation of Immune Effector Process</a> , <a href="#">Activated T Cell Proliferation</a> , <a href="#">Cancer Immune Checkpoints</a> , <a href="#">Inflammasome</a>

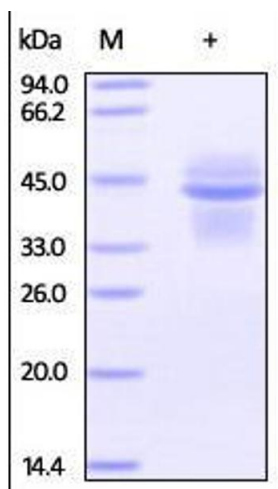
## Application Details

Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Buffer:	PBS, pH 7.4
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	No activity loss was observed after storage at: In lyophilized state for 1 year (4 °C), After reconstitution under sterile conditions for 3 months (-70 °C).



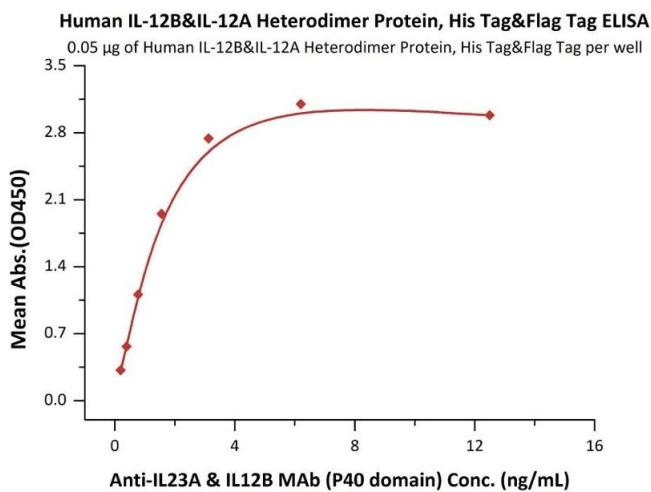
**ELISA**

**Image 1.** Immobilized Biotinylated Human IL-12 R beta 1, Fc,Avitag (ABIN6731329,ABIN6809867) at 1 µg/mL (100 µL/well) on Streptavidin precoated (0.5 µg/well) plate, can bind Human IL-12B&IL-12A Heterodimer Protein, His Tag&Flag Tag (ABIN2181328,ABIN3071736,ABIN2693594) with a linear range of 0.039-0.625 µg/mL (Routinely tested).



**SDS-PAGE**

**Image 2.**



**ELISA**

**Image 3.** Immobilized Human IL-12B&IL-12A Heterodimer Protein, His Tag&Flag Tag (ABIN2181328,ABIN3071736,ABIN2693594) at 0.5 µg/mL (100 µL/well) can bind A & IL12B MAb (P40 domain) with a linear range of 0.2-2 ng/mL (QC tested).