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## IL12 Protein (AA 23-219, AA 23-328)

3 Images



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Overview	
Quantity:	1 mg
Target:	IL12
Protein Characteristics:	AA 23-219, AA 23-328
Origin:	Human
Source:	HEK-293T Cells
Protein Type:	Recombinant
Biological Activity:	Active
Product Details	
Characteristics:	EC50 < 2 ng/mL, measured by the induction of IFN-gamma from NK cells co-stimulated with IL-
	18, corresponding to a specific activity of $ > 1x10^6 $ units/mg.
	P35 subunit: AA 23-219 ,P40 subunit: AA 23-328
Purity:	> 95 % as analyzed by SDS-PAGE and HPLC.
Endotoxin Level:	< 0.2 EU/μg, determined by LAL method.
Target Details	
Target:	IL12
Alternative Name:	Interleukin 12(IL-12) (IL12 Products)
Background:	Interleukin 12 (IL-12), also known as natural killer cell stimulatory factor (NKSF) or cytotoxic
	lymphocyte maturation factor (CLMF), is a pleiotropic cytokine originally identified in the
	medium of activated human B lymphoblastoid cell lines. The p40 subunit of IL-12 has been

shown to have extensive amino acid sequence homology to the extracellular domain of the human IL-6 receptor while the p35 subunit shows distant but significant sequence similarity to IL-6, G-CSF, and chicken MGF. These observations have led to the suggestion that IL-12 might have evolved from a cytokine/soluble receptor complex. Human and mouse IL-12 share 70 % and 60 % amino acid sequence homology in their p40 and p35 subunits, respectively. IL-12 apparently shows species specificity with human IL-12 reportedly showing minimal activity in the mouse system.

Synonyms: NKSF, CTL maturation factor (TCMF), Cytotoxic lymphocyte maturation factor

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Molecular Weight: 75 kDa, consisting of a 306 amino acid residue p40 subunit and a 197 amino acid residue p35

subunit.

P29459, P29460

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**

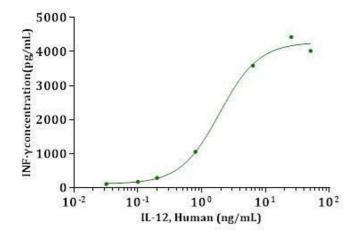
Restrictions: For Research Use only

#### Handling

UniProt:

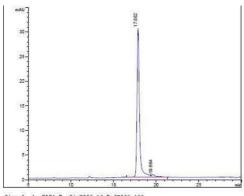
Pathways:

Format:	Lyophilized
Reconstitution:	Reconstituted in ddH2O or PBS at 100 μg/mL.
Buffer:	Lyophilized after extensive dialysis against PBS.
Storage:	-80 °C
Storage Comment:	Lyophilized recombinant Human Interleukin 12(IL-12) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rh-IL12 should be stable up to 1 week at 4 °C or up to 2 months at -20 °C.
Expiry Date:	6 months

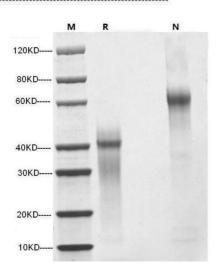


#### **Activity Assay**

**Image 1.** IL-12, Human induction of IFN- $\gamma$  from NK cells costimulated with IL-18. The ED50 for this effect is less than 2ng/mL(1.92 ng/mL).



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į.	21	19.66	41FM	1	0.6941	21.4891	3.389



### Image 2.

#### **SDS-PAGE**

**Image 3.** 2  $\mu$ g of IL-12, Human was resolved with SDS-PAGE under reducing (R) and non-reducing (N) conditions and visualized by Coomassie Blue staining.