

## IL 12 Human

**Description:** Interleukin-12 Human Recombinant produced in HEK cells is a glycosylated heterodimer, having a total molecular weight of 57kDa. The IL12 is purified by proprietary chromatographic techniques.

**Catalog #:** CYPs-108

For research use only.

**Synonyms:** NKSF, CTL maturation factor (TCMF), Cytotoxic lymphocyte maturation factor (CLMF), TSF, Edodekin-alpha, IL-12.

**Source:** HEK.

**Physical Appearance:** Sterile Filtered White lyophilized (freeze-dried) powder.

**Amino Acid Sequence:** IL-12 is a heterodimer of IL-12A and IL-12B linked through a disulfide-bond between cysteines in red in sequences below. >IL-12  
ARNLPVATPDGPMFPCLLHHSQNLRLRAVSNNMLQKARQTLEFYPTSEEIDHEDTKDKTSTVEACL  
PLELTKNESCLNSRETSFITNGSCLSRKTSFMMALCLSSIEDLKMYQVEFKTMNAKL

**Purity:** Greater than 95% as observed by SDS-PAGE.

**Formulation:**

The IL12 was lyophilized from 1mg/ml in 1xPBS.

**Stability:**

Lyophilized IL-12 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL12 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Usage:**

NeoBiolabs products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Solubility:**

It is recommended to reconstitute the lyophilized IL12 in sterile PBS containing 0.1% endotoxin-free recombinant HSA.

**Introduction:**

IL-12 is a heterodimeric cytokine that stimulates the production of interferon gamma from T-cells and natural killer cells, and also induces differentiation of Th1 helper cells. IL-12 is an initiator of cell-mediated immunity.

**Biological Activity:**

The specific activity was determined by the dose-dependent release of IFN-gamma from the human NK92 cell line in presence of 20ng/mL rIL-2, and is typically 0.1-0.5ng/ml.

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