

## Interleukin-12 Human Recombinant

<b>Item Number</b>	rAP-0498
<b>Synonyms</b>	NKSF, CTL maturation factor (TCMF), Cytotoxic lymphocyte maturation factor (CLMF), TSF, Edodekin-alpha, IL-12.
<b>Description</b>	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.
<b>Uniprot Accesion Number</b>	
<b>Amino Acid Sequence</b>	IL-12 is a heterodimer of IL-12A and IL-12B linked through a disulfide-bond between cysteines in red in sequences below. &gt;IL-12 ARNLPVATPDPGMFPCLHHSQNLLRAVSNMLQKARQTL-E-FYPCTSEEIDHEDITKDKTSTVEACLPLELTKNESCLNSRETSFITNGSCLASRKTSFMMALCLSSIYEDLKM YQVEFKTMNAKLLMDPKRQIFLDQNMLAVIDELMQALNFSSETVPQKSSLEEPDFYKTKIKLCILLHAFRIRA VTIDRVMSYLNAS.&gt;IL-
<b>Source</b>	HEK.
<b>Physical Appearance and Stability</b>	Sterile Filtered White lyophilized (freeze-dried) powder. 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.
<b>Formulation and Purity</b>	IL12 was lyophilized from a 0.2µm filtered solution containing 1xPBS. Greater than 95% as observed by SDS-PAGE.
<b>Application</b>	
<b>Solubility</b>	It is recommended to reconstitute the lyophilized IL12 in sterile PBS containing 0.1% endotoxin-free recombinant HSA.
<b>Biological Activity</b>	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. The EC50 is 0.5ng/ml.
<b>Shipping Format and Condition</b>	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**