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**Product Data Sheet**


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Product Name: IL12 Human, Sf9  
 Cat. No.: GP26052  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Baculovirus.
Physical Appearance	solid	Shipping Condition	atRoomtemp.
Synonyms	23-219aa (IL12A) / 23-328aa (IL12B), Interleukin 12 (subunit beta/alpha), IL12 His, NKSF1, NKSF, CTL maturation factor (TCMF), Cytotoxic lymphocyte maturation factor (CLMF), TSF, Edodekin-alpha, IL-12.		
Amino Acid Sequence	<p>IL-12 is a heterodimer of IL-12A and IL-12B linked through a disulfide-bond:&gt;IL-12 ARNLPVATP DPGMFPCLHH SQNLLRAVSN MLQKARQTLE FYPCTSEEID HEDITKDKTS TVEACLPLEL TKNESCLNSR ETSFITNGSC LASRKTSMFMM ALCLSSYIED LKMYQVEFKT MNAKLLMDPK RQIFLDQNML AVIDELMQAL NFNSETVPQK SSLEEPDFYK TKIKLCILLH AFRIRAVTID RVMSYLNAS.&gt;IL-12BIWELKKDV YVVELDWYPD APGEMVVLTC DTPEEDGITW TLDQSSEVLG SGKTLTIQVK EFGDAGQYTC HKGGEVLSHS LLLLHKKEDG IWSTDILKDQ KEPKNKFLR CEAKNYSGRF TCWWLTTIST DLTFVSKSSR GSSDPQGVTC GAATLSAERV RGDNKEYEYS VECQEDSACP AAEEESLPIEV MVDVHKLKY ENYTSSFFIR DIIKPDPPKN LQLKPLKNSR QVEVSWEYPD TWSTPHSYFS LTFCVQVQVK SKREKKDRVF TDKTSATVIC RKNASISVRA QDRYYSSSWS EWASVPCS.</p>		
Solubility	It is recommended to reconstitute the lyophilized Interleukin 12 in sterile 18MΩ-cm H <sub>2</sub> O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a 0.2μm filtered concentrated solution in PBS, pH 7.2.		

**Introduction**

interleukin 12 subunit beta/alpha or IL12b/IL12a is a growth factor cytokine which increases the lytic activity of NK/lymphokine-activated killer cells, activated T and NK cells and prompt IFN-gamma production (through resting PBMC). IL12b/IL12a is an essential part to the process of cellular-immunity and activates the differentiation of Th1

**Caution: Product has not been fully validated for medical applications. For research use only.**

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cells originates from the precursor T helper cells. The protein is linked to IL23A and creates the IL-23 interleukin, by that, the autoimmune inflammation is induced and autoimmune inflammatory diseases and tumorigenesis are being affected.

### Biological Activity

Determined by cell proliferation assay using PHA-stimulated human T lymphoblasts. The ED50 for this effect is 0.01-0.05 ng/mL corresponding to a specific activity of 11,000 units/ $\mu$ g.

### Stability

Lyophilized Interleukin 12 although stable at room temperature for 3 weeks, should be stored desiccated below  $-18^{\circ}\text{C}$ . Upon reconstitution PDGF BB should be stored at  $4^{\circ}\text{C}$  between 2-7 days and for future use below  $-18^{\circ}\text{C}$ . Please prevent freeze-thaw cycles.

### Background

Interleukin 12 Human Recombinant is a glycosylated heterodimer containing 503 amino acids (306 amino acid rHuIL-12 p40 and the 197 amino acid rHuIL-12 p35 subunits) and having a molecular mass of 60kDa. IL12 is purified by proprietary chromatographic techniques.

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