

## Product datasheet for **AR51663PU-S**

### Interleukin-12 (ILA 23-219+ILB 23-328) Human Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Interleukin-12 (ILA 23-219+ILB 23-328) human recombinant protein, 50 µg
Species:	Human
Expression Host:	Insect
Expression cDNA Clone or AA Sequence:	<p>* IL-12 is a heterodimer of IL12A and IL12B linked through a disulfide-bond between cysteines in Bold in below sequences.</p> <p><b>&gt; IL12A(p35)</b></p> <p>RNLVPVATPDP GMFPC LHHSQ NLLRAVSNML QKARQTLEFY PCTSEEIDHE DITKDKTSTV  EACLPLELTK NES<b>CL</b>NSRET SFITNGSCLA SRKTSFMMAL CLSSIYEDLK MYQVEFKTMN  AKLLMDPKRQ IFLDQNMLAV IDELMQALNF NSETVPQKSS LEEPDFYKTK IKLCILLHAF RIRAVTIDRV  MSYLNASHHH <u>HHH</u></p> <p><b>&gt; IL12B(p40)</b></p> <p>IWELKKDVYV VELDWYPDAP GEMVVLTCDT PEEDGITWTL DQSSEVLGSG KTLTIQVKEF  GDAGQYTCHK GGEVLSHSL LLHKKEDGIW STDILKDQKE PKNKTLRCE AKNYSGRFTC  WWLTTISTDL TFSVKSSRG S DPQGVTCGA ATLSAERVRG DNKEYEYSVE CQEDSACPA  EESLPIEVMV DAVHKLKYEN YTSSFFIRDI IKPDPPKNLQ LKPLKNSRQV EVSWEYPDTW STPHSYFSLT  FCVQVQGKSK REKKDRVFTD KTSATVICRK NASISVRAQD RYYSSSWSEW ASVPCS</p>
Concentration:	lot specific
Purity:	>90% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: Phosphate buffered saline (pH 7.4), 10% glycerol
Bioactivity:	Biological: Human IL12 stimulates IFN-γ secretion of the NK-92 human natural killer cells. The ED50 range ≤ 1 ng/ml.
Endotoxin:	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Preparation:	Liquid purified protein
Protein Description:	Recombinant Human IL12 protein, fused to His-tag at C-terminus, was expressed in insect cells using baculovirus expression system and purified by using conventional chromatography techniques.



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<b>Storage:</b>	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>RefSeq:</b>	<a href="#">NP_000873</a>
<b>Locus ID:</b>	3592
<b>UniProt ID:</b>	<a href="#">P29459</a> , <a href="#">O60595</a>
<b>Cytogenetics:</b>	3q25.33
<b>Synonyms:</b>	CLMF; IL-12A; NFSK; NKSF1; P35
<b>Summary:</b>	This gene encodes a subunit of a cytokine that acts on T and natural killer cells, and has a broad array of biological activities. The cytokine is a disulfide-linked heterodimer composed of the 35-kD subunit encoded by this gene, and a 40-kD subunit that is a member of the cytokine receptor family. This cytokine is required for the T-cell-independent induction of interferon (IFN)-gamma, and is important for the differentiation of both Th1 and Th2 cells. The responses of lymphocytes to this cytokine are mediated by the activator of transcription protein STAT4. Nitric oxide synthase 2A (NOS2A/NOS2) is found to be required for the signaling process of this cytokine in innate immunity. [provided by RefSeq, Jul 2008]
<b>Protein Families:</b>	Druggable Genome, Secreted Protein
<b>Protein Pathways:</b>	Allograft rejection, Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway, RIG-I-like receptor signaling pathway, Toll-like receptor signaling pathway, Type I diabetes mellitus

### Product images:

