

Product datasheet for **AR31187PU-S**

Interleukin-27 / IL27A Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Interleukin-27 / IL27A human recombinant protein, 2 µg
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	p28 subunit: FPRPPGRPQL SLQELRREFT VSLHLARKLL SEVRGQAHRF AESHLPGVNL YLLPLGEQLP DVSLTFQAWR RLSDPERLCF ISTTLQPFHA LLGGLGTQGR WTNMERMQLW AMRLDLRLDQ RHLRFQVLAA GFNLPEEEEE EEEEEEEERK GLLPGALGSA LQGPAQVSWP QLLSTYRLLH SLELVLSRAV RELLLSKAG HSWWPLGFPT LSPQP EBI3 subunit: RKGPPAALT PRVQCRASRY PIAVDCSWTL PPAPNSTSPV SFIATYRLGM AARGHSWPCL QQTPTSTSTCT ITDVQLFSMA PYVLNVTAVH PWGSSSSSFP FITEHIIKPD PPEGVRLSPL AERQLQVQWE PPGSWPFPEI FSLKYWIRYK RQGAARFHRV GPIEATSFIL RAVRPRARYY VQVAAQDLTD YGELSDWSLP ATATMSLGK
Predicted MW:	47.8 kDa
Purity:	>90% pure by SDS-PAGE gel and HPLC analyses
Buffer:	Presentation State: Purified State: Lyophilized (0.2µ Sterile filtered) purified protein Buffer System: 10 mM Sodium Phosphate, pH 6.5 + 100mM NaCl
Bioactivity:	Biological: Determined by its ability to stimulate the proliferation of Human TF-1 cells. The expected ED ₅₀ range is 400-500 ng/ml.
Endotoxin:	< 0.1 ng/µg of protein (<1EU/µg)
Reconstitution Method:	Restore in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.
Preparation:	Lyophilized (0.2µ Sterile filtered) purified protein
Protein Description:	Recombinant Human IL-27 produced from <i>HEK293</i> cells is a non-disulfide-linked, heterodimeric protein composed of a 209 amino acid length EBI3 subunit and a 215 amino acid length IL-27-p28 subunit, for a total sequence length of 424 amino acid residues. The calculated molecular weight of the associated IL-27 subunits is 47.8 kDa.



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Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_663634
Locus ID:	246778
UniProt ID:	Q8NEV9
Cytogenetics:	16p12.1-p11.2
Synonyms:	IL-27; IL-27A; IL27A; IL27p28; IL30; p28
Summary:	The protein encoded by this gene is one of the subunits of a heterodimeric cytokine complex. This protein is related to interleukin 12A (IL12A). It interacts with Epstein-Barr virus induced gene 3 (EBI3), a protein similar to interleukin 12B (IL12B), and forms a complex that has been shown to drive rapid expansion of naive but not memory CD4(+) T cells. The complex is also found to synergize strongly with interleukin 12 to trigger interferon gamma (IFNG) production of naive CD4(+) T cells. The biological effects of this cytokine are mediated by the class I cytokine receptor (WSX1/TCRR). [provided by RefSeq, Jul 2008]
Protein Families:	Druggable Genome, Transmembrane