

Recombinant Human IL-27A&IL-27B Protein

Catalog No.: RP02927LQ **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	246778&10148	Q8NEV9&Q14213

Tags

No tag

Synonyms

Human IL-27; h-IL-27; rh-IL-27;
recombinant IL-27; interleukin-27

Background

IL-27 is a heterodimeric group 2 receptor ligand molecule that belongs to the IL-6/IL-12 family of long type I cytokines (1). It is composed of EBI3 (EBV-induced gene?3), a 34 kDa glycoprotein that is related to the p40 subunit of IL-12 and IL-23, and p28, the?28 kDa glycoprotein that is related to the p35 chain of IL-12 (2-4). The human EBI3 gene encodes a 229 amino acid (aa) precursor that contains a 20 aa signal peptide and 209 aa mature protein (5). The mature region contains two potential N-linked glycosylation sites, two fibronectin type III domains, and two pairs of conserved cysteine residues with a WSXWS-like motif that places the molecule in the hematopoietin receptor family (5). Although p40, the EBI3 counterpart in IL-12, is known to form homodimers, there is no evidence to date that EBI3 also homodimerizes. Human EBI3 is 61% aa identical to mouse EBI3. The human p28 gene encodes a 243 aa precursor that contains a 28 aa signal sequence and 215?aa mature region (6).

Product Information

Source	Purification
HEK293	> 95% by Tris-Bis PAGE;> 95% by SEC-HPLC

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution

0.2 mg/mL in sterile PBS, pH7.4

Basic Information

Description

Recombinant human IL-27A&IL-27B Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Arg21-Lys229&Ile23-Ser328) of human IL-27A&IL-27B (Accession #) fused with additional amino acid free.

Bio-Activity

Storage

Aliquot and store at -80°C. Avoid repeated freeze/thaw cycles.
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Contact

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