

## 32-20626: Recombinant Human IL-27(Discontinued)

**Reactivity :** Human, Mouse

**Alternative Name :** Interleukin-27, Interleukin-27 subunit alpha, IL-27-A, Interleukin-27 subunit beta, IL-27B, Epstein-Barr virus-induced gene 3 protein, EBV-induced gene 3 protein, EB13, p28, Interleukin-30, IL30

### Description

#### Source:HEK293 cells

As a member of the IL-12 family of heterodimeric cytokines that also includes IL-12, IL-23, and IL-35, IL-27 is formed by the association of an IL-27-p28 subunit (also known as IL-30) with the Epstein-Barr Virus (EBV)-induced Gene 3 (EBI3) subunit (also known as IL-27B). Expressed by antigen-presenting cells (APCs) in the early phases of antigen-mediated activation, IL-27 acts as a critical initiator of adaptive immune responses by promoting the rapid clonal expansion of naïve CD4<sup>+</sup> T cells, IFN-Gamma production, and Th1 polarization. IL-27 elicits its effects through receptor complexes IL-27R (also known as TCCR/WSX-1) and gp130, a receptor shared by IL-6. Mainly expressed in monocytes, endothelial cells, and dendritic cells, IL-27 plays an important role alongside IL-6 in the regulation of inflammation and autoimmunity; directly antagonizing IL-6's stimulation of CD4<sup>+</sup> T cell proliferation and Th17 differentiation. Recombinant Human IL-27 produced from HEK293 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.

### Product Info

**Amount :** 2 µg / 10 µg

**Purification :** Purity: >= 90% by SDS-PAGE gel and HPLC analyses.

**Content :** This recombinant protein is supplied in lyophilized form.

**Amino Acid :** p28 subunit: FPRPPGRPQL SLQELRREFT VSLHLARKLL SEVRGQAHRF AESHLPGVNL YLLPLGEQLP DVSLTFQAWR RLSUPERLCF ISTTLQPFHA LLGGLGTQGR WTNMERMQLW AMRLDLRLQ RHLRFQVLAA GFNLPEEEEE EEEEEEEERK GLLPGALGSA LQGPAQVSWP QLLSTYRLLH SLELVLSRAV RELLLSKAG HSVWPLGFPT LSPQPEBI3 subunit: RKGPP AALTLPVQC RASRYPIAVD CSWTLPPAPN STSPVSFIAT YRLGMAARGH SWPCLQQTPT STSCTITDVQ LFSMAPYVLN VTAVHPWGSS SSFVPFITEH IIKPDPEGV RLSPLAERQL QVQWEPPGSW PFPEIFSLKY WIRYKRQGAA RFHRVGPIEA TSFILRAVRP RARYVQVAA QDLTDYGELS DWSLPATATM SLGK

### Application Note

Determined by its ability to stimulate the proliferation of human TF-1 cells. The expected ED<sub>50</sub> range is 400-500 ng/ml.