

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⁺ 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⁺ 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 RLSPPERLCF ISTTLQPFHA LLGGLGTQGR WTNMERMQLW AMRLDLRDLQ RHLRFQVLAA GFNLPEEEEE EEEEEEEERK GLLPGALGSA LQGPAQVSWP QLLSTYRLLH SLELVLSRAV RELLLSKAG HSVWPLGFPT LSPQEBI3 subunit: RKGPP AALTLPVQC RASRYPIAVD CSWTLPPAPN STSPVSIAT YRLGMAARGH SWPCLQQTPT STSCTITDVQ LFSMAPYVLN VTAVHPWGSS SSFVPFITEH IIKPDPPEGV RLSPLAERQL QVQWEPGSW 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 ED₅₀ range is 400-500 ng/ml.