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Datasheet for ABIN6253326

IL-27 Protein (AA 21-229, AA 26-243) (Fc Tag)

Overview

Quantity:	50 µg
Target:	IL-27 (IL27)
Protein Characteristics:	AA 21-229, AA 26-243
Origin:	Human
Source:	CHO Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IL-27 protein is labelled with Fc Tag.

Product Details

Purpose:	IL-27 (human):Fc (human) (rec.) (non-lytic)
Specificity:	The human IL-27 complex composed of the Ebi3 subunit (aa 21-229) and the p28 subunit (aa 26-243) is fused through a polypeptide linker to the Fc portion of a mutant human IgG1.
Characteristics:	<p>Protein. The human IL-27 complex composed of the Ebi3 subunit (aa 21-229) and the p28 subunit (aa 26-243) is fused through a polypeptide linker to the Fc portion of a mutant human IgG1. Source: CHO cells. Endotoxin content: <0.06EU/µg protein (LAL test, Lonza). Lyophilized from 0.2µm-filtered solution in PBS. Purity: >98 % (SDS-PAGE). Interleukin-27 (IL-27) is a heterodimeric group 2 receptor ligand molecule that belongs to the IL-6/IL-12 family of long type I cytokines. 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 cloned 28 kDa glycoprotein that is related to the p35 chain of IL-12. IL-27 is expressed by monocytes, endothelial cells and dendritic cells. IL-27 binds to and signals through a heterodimeric receptor complex composed of WSX1 (TCCR) and gp130. Evidence suggests IL-27 interacts only with WSX-1. IL-27 has both</p>

Product Details

anti- and proinflammatory properties. As an antiinflammatory, IL-27 seems to induce a general negative feedback program that limits T and NK-T cell activity. At the onset of infection, IL-27 induces an IL-12 receptor on naive CD4+ T cells, making them susceptible to subsequent IL-12 activity (and possible Th1 development). Notably, IL-12 family cytokines are both induced and inhibited by bacterial products. Microbes promote IL-27 secretion through TLR4, and also block IL-27 production via C5a induction.

Purity: >98 % (SDS-PAGE)

Endotoxin Level: <0.06EU/μg protein (LAL test, Lonza).

Biological Activity Comment: Bioactivity was measured in a cell proliferation assay using anti-CD3 activated human peripheral mononuclear cells.

Target Details

Target: IL-27 (IL27)

Alternative Name: IL-27 ([IL27 Products](#))

Background: Alternate Names/Synonyms: Interleukin-27

Product Description: Interleukin-27 (IL-27) is a heterodimeric group 2 receptor ligand molecule that belongs to the IL-6/IL-12 family of long type I cytokines. 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 cloned 28 kDa glycoprotein that is related to the p35 chain of IL-12. IL-27 is expressed by monocytes, endothelial cells and dendritic cells. IL-27 binds to and signals through a heterodimeric receptor complex composed of WSX1 (TCCR) and gp130. Evidence suggests IL-27 interacts only with WSX-1. IL-27 has both anti- and proinflammatory properties. As an antiinflammatory, IL-27 seems to induce a general negative feedback program that limits T and NK-T cell activity. At the onset of infection, IL-27 induces an IL-12 receptor on naive CD4+ T cells, making them susceptible to subsequent IL-12 activity (and possible Th1 development). Notably, IL-12 family cytokines are both induced and inhibited by bacterial products. Microbes promote IL-27 secretion through TLR4, and also block IL-27 production via C5a induction.

NCBI Accession: [NP_663634](#)

Application Details

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Concentration:	Lot specific
Buffer:	Lyophilized from 0.2µm-filtered solution in PBS.
Handling Advice:	Avoid freeze/thaw cycles.
Storage:	4 °C, -20 °C
Storage Comment:	Short Term Storage: +4°C Long Term Storage: -20°C Use & Stability: Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.