

Datasheet for ABIN7566258

## IL-27 Protein (AA 1-228, AA 29-234) (Fc Tag)



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### Overview

|                               |   |
|-------------------------------|---|
| Quantity:                     | 50 µg                                       |
| Target:                       | IL-27 (IL27)                                |
| Protein Characteristics:      | AA 1-228, AA 29-234                         |
| Origin:                       | Mouse                                       |
| Source:                       | CHO Cells                                   |
| Protein Type:                 | Recombinant                                 |
| Biological Activity:          | Active                                      |
| Purification tag / Conjugate: | This IL-27 protein is labelled with Fc Tag. |

### Product Details

|                              |   |
|------------------------------|---|
| Purpose:                     | IL-27 (mouse):Fc (human) (rec.)   |
| Cross-Reactivity:            | Mouse   |
| Characteristics:             | The mouse IL-27 complex composed of the Ebi3 subunit (aa 1-228) and the p28 subunit (aa 29-234) is fused through a polypeptide linker to the Fc region of human IgG1. |
| Purity:                      | >98 % (SDS-PAGE)  |
| Sterility:                   | Sterile filtered  |
| Endotoxin Level:             | <0.06EU/µg protein (LAL test, Lonza).   |
| Biological Activity Comment: | Bioactivity was measured in a cell proliferation assay of Con A activated mouse splenocytes.  |

## Target Details

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Target: IL-27 (IL27)

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

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Background: Interleukin-27

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 EB13 (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.

## Application Details

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Restrictions: For Research Use only

## Handling

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Format: Lyophilized

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Buffer: Lyophilized from 0.2µm-filtered solution in PBS.

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Handling Advice: Avoid freeze/thaw cycles. Centrifuge lyophilized vial before opening and reconstitution.

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Storage: 4 °C, -20 °C

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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.