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## **CHASELECTION**

# Recombinant Human IL27, Tag Free

货号(Catalog Number): CY123FXXXX(L)

别名(synonym): Human IL27; IL-27; IL-27; IL-27 subunit alpha; IL27A; IL-27-A; IL27-A; IL27p28; interleukin 27

来源(Source): Human embryonic kidney cell, HEK293-derived human IL-27 protein

## 蛋白结构 (Structure):

该蛋白不含标签

基因 ID: Q14213.2 (IL-27EBI3) & AAM34498 (IL-27p28)

## 氨基酸序列

IL-27 EBI-3(Arg21-Lys229),IL-27p28(Phe29-Pro243)

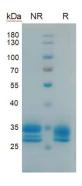
#### 分子量大小(MW)

56.0 kDa (Monomer)

# 纯度 (Purity)

> 95%, determined by SDS-PAGE

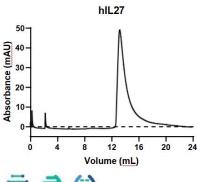
### SDS-PAGE



4 ug/lane protein was resolved with SDS-PAGE under

non-reducing (NR) and reducing (R) conditions and visualized by Coomassie Blue staining.

# Gel-filtration



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Size-exclusion chromatography of recombinant human IL27 protein (280 nm absorbance)

## 内毒素含量 (Endotoxin)

< 0.010 EU per 1 ug of the protein by the LAL method

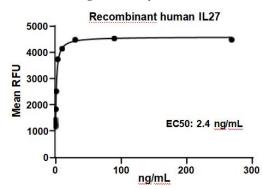
### 制剂(Formulation)

Solution protein.

Dissolved in sterile PBS buffer.

This solution can be diluted into other aqueous buffers. Centrifuge the vial prior to opening.

# 活性检测(Biological Activity)



Recombinant human IL27 anti-viral activity using HepG2 human hepatocellular carcinoma cells infected with encephalomyocarditis (EMC) virus.

#### 储存与运输(Storage)

Avoid repeated freeze-thaw cycles.

It is recommended that the protein be aliquoted for optimal storage.

36 months from date of receipt, -20 to -70  $\,^\circ\,$  C as supplied.

## 产品背景介绍(Production)

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 28 kDa glycoprotein.that is related to the p35 chain of IL-12. The human EBI3 gene encodes a 229 amino acid (aa) precursor that contains a 20 aa signal peptide and 209 aa mature

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protein. 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. 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. The mature region is characterized by the presence of four alpha -helices, placing it in the IL-6 family of helical cytokines. Human p28 is 74% aa identical to mouse p28. IL-27 is expressed by monocytes, endothelial cells and dendritic cells. IL-27 binds to and signals through a heterodimeric receptor complex composed of WSX-1 (TCCR) and gp130. Evidence suggests IL-27 interacts only with WSX-1. IL-27 has both anti- and proinflammatory properties. As anti-inflammatory,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 CD4+ T cells, making them susceptible to subsequent IL-12 activity (and possible Th1 development).



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