

# Recombinant Human IL27 Protein (Met1-Lys229), His-tagged, Biotinylated

Cat. No. IL27-335H Lot. No. (See product label)

## SPECIFICATION

**Product Overview** Recombinant Human IL27 Protein was produced by CHO Stable Cells expression system. This protein composed of IL27B subunit (NP\_005746.2) (Met1-Lys229) and the N-terminally truncated IL27p28 (IL27A) subunit (NP\_663634.2) (Phe29-Pro243) linked by an polypeptide linker was fused with a polyhistidine tag at the C-terminus. The purified protein was biotinylated in vitro.

**Species** Human

**Source** CHO

**ProteinLength** (IL27A) Phe29-Pro243 & (IL27B) Met1-Lys229

**Description** IL-27 protein is a member of the IL-6 superfamily, which is expressed on monocytes, endothelial cells and dendritic cells. IL-27 protein is also referred as the IL-12 p35-related protein, p28, is one subunit of a heterodimeric cytokine complex, and associates with another subunit EBI3 (EBV-induced gene 3), an IL-12 p4-related protein (IL-27B). IL-27 protein is an early product of activated antigen-presenting cells and drives rapid clonal expansion of naive CD4(+) T cells and plays a role in the early regulation of Th1 cells initiation which drives efficient adaptive immune response. IL-27 protein has an antiproliferative activity on melanomas through WSX-1/STAT1 signaling. Thus, IL-27 protein may be an attractive candidate as an antitumor agent applicable to cancer immunotherapy.

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<b>Predicted N Terminal</b>	Arg 21
<b>Form</b>	Lyophilized from sterile PBS. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
<b>Molecular Mass</b>	The recombinant human IL27 complex (IL27B & IL27A) consists of 450 amino acids after removal of the signal peptide and has a calculated molecular mass of 56 KDa as estimated in SDS-PAGE under reducing conditions.
<b>Endotoxin</b>	< 1.0 EU per µg protein as determined by the LAL method.
<b>Purity</b>	> 95 % as determined by SDS-PAGE
<b>Stability</b>	Samples are stable for up to twelve months from date of receipt at -70 centigrade.
<b>Storage</b>	Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.
<b>Shipping</b>	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.
<b>Conjugation</b>	Biotin

## GENE INFORMATION

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<b>Gene Name</b>	IL27 interleukin 27 [ Homo sapiens (human) ]
<b>Official Symbol</b>	IL27
<b>Synonyms</b>	IL27; interleukin 27; p28; IL30; IL-27; IL27A; IL-27A; IL27p28;
<b>Gene ID</b>	246778
<b>mRNA Refseq</b>	NM_145659
<b>Protein Refseq</b>	NP_663634
<b>MIM</b>	608273
<b>UniProt ID</b>	Q8NEV9

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