

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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Predicted N Terminal	Arg 21
Form	Lyophilized from sterile PBS. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Molecular Mass	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.
Endotoxin	< 1.0 EU per µg protein as determined by the LAL method.
Purity	> 95 % as determined by SDS-PAGE
Stability	Samples are stable for up to twelve months from date of receipt at -70 centigrade.
Storage	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.
Reconstitution	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.
Shipping	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.
Conjugation	Biotin

GENE INFORMATION

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

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