

# Recombinant Human IL-30 protein(N-His)

Catalog Number:PKSH034115



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

## Description

|                                    |                   |
|------------------------------------|-------------------|
| <b>Synonyms</b>                    | IL-27-p28 subunit |
| <b>Species</b>                     | Human             |
| <b>Expression Host</b>             | E.coli            |
| <b>Sequence</b>                    | Phe 29-Pro 243    |
| <b>Accession</b>                   | Q8NEV9            |
| <b>Calculated Molecular Weight</b> | 25.5 kDa          |
| <b>Observed molecular weight</b>   | 28 kDa            |
| <b>Tag</b>                         | C-His             |

## Properties

|                       |   |
|-----------------------|---|
| <b>Purity</b>         | > 98 % as determined by reducing SDS-PAGE.  |
| <b>Endotoxin</b>      | < 0.1 EU per µg of the protein as determined by the LAL method.   |
| <b>Storage</b>        | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. |
| <b>Shipping</b>       | This product is provided as lyophilized powder which is shipped with ice packs.   |
| <b>Formulation</b>    | Lyophilized from sterile PBS,pH 8.0.<br>Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.<br>Please refer to the specific buffer information in the printed manual.           |
| <b>Reconstitution</b> | Please refer to the printed manual for detailed information.  |

## Background

IL-30, also known as IL-27A,p28. 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 to as the IL-12 p35-related protein, p28, is one subunit of a heterodimeric cytokine complex, and associates with another subunit EB13 (EBV-induced gene 3), and IL-12 p40-related protein (IL-27B). IL-27 protein is an early product of activated antigen-presenting cells and drives the 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.

## For Research Use Only

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