

## Recombinant Mouse IL-30 protein(His Tag)

**Catalog Number: PKSM041476**

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

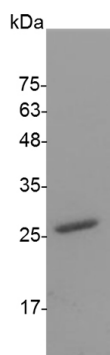
### Description

<b>Species</b>	Mouse
<b>Source</b>	E.coli-derived Mouse IL-30 protein Phe 29-Ser 234, with an C-terminal His
<b>Calculated MW</b>	24.5 kDa
<b>Observed MW</b>	25 kDa
<b>Accession</b>	Q8K3I6
<b>Bio-activity</b>	Measure by its ability to protect HepG2 cells infected with encephalomyocarditis (EMC) virus. The ED <sub>50</sub> for this effect is <5 ng/mL.

### 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 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

### Data



> 98 % as determined by reducing SDS-PAGE.

### 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 EBI3 (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