

## Recombinant Human IL-29 protein(His Tag)

**Catalog No.** PKSH034114

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

### Description

<b>Synonyms</b>	IFN-λ1
<b>Species</b>	Human
<b>Expression Host</b>	E.coli
<b>Sequence</b>	Pro 23-Thr 200
<b>Accession</b>	Q8IU54
<b>Calculated Molecular Weight</b>	20.7 kDa
<b>Observed molecular weight</b>	22 kDa
<b>Tag</b>	C-His
<b>Bioactivity</b>	Measure by its ability to induce IL-8 secretion in HuH7 cells. The ED <sub>50</sub> for this effect is < 6 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 8.0. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 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.

### Background

Cytokine with antiviral, antitumour and immunomodulatory activities. Plays a critical role in the antiviral host defense, predominantly in the epithelial tissues. Acts as a ligand for the heterodimeric class II cytokine receptor composed of IL10RB and IFNLR1, and receptor engagement leads to the activation of the JAK/STAT signaling pathway resulting in the expression of IFN-stimulated genes (ISG), which mediate the antiviral state. Has a restricted receptor distribution and therefore restricted targets: is primarily active in epithelial cells and this cell type-selective action is because of the epithelial cell-specific expression of its receptor IFNLR1. Exerts an immunomodulatory effect by up-regulating MHC class I antigen expression.

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