

# Recombinant Protein Technical Manual Recombinant Human IFN-λ1/IL-29 Protein (His Tag)

**RPES1908** 

### **Product Data:**

**Product SKU:** RPES1908 **Size:** 10μg

Species: Human Cells

Uniprot: Q8IU54

### **Protein Information:**

Molecular Mass: 21.4 kDa

AP Molecular Mass: 28-35 kDa

Tag: C-His

**Bio-activity:** 

**Purity:** > 95% as determined by reducing SDS-PAGE.

**Endotoxin:**  $< 1.0 \text{ EU per } \mu\text{g}$  as determined by the LAL method.

**Storage:** Lyophilized protein should be stored at < -20°C, though stable at room

temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:** 

**Synonyms:** Interferon lambda; IFN-lambda; Cytokine Zcyto21; Interleukin-29; IL-29; IFNL1;

IL29; ZCYTO21

# Immunogen Information:

Sequence: Gly20-Thr200

# Background:

Interleukin-29 (IL-29) is a secreted protein which belongs to the IL-28/IL-29 family. IL-29 is a cytokine with immunomodulatory activity. IL-29 is highly similar in amino acid sequence to the IL-28. IL-28 and IL-29 are induced by viral infection and showed antiviral activity. IL-28 and IL-29 interacted with a heterodimeric class II cytokine receptor that consisted of ILO receptor beta (ILOR beta) and an orphan class II receptor chain, designated IL-28R alpha. IL-29 plays an important role in host defenses against microbes and its gene is highly upregulated in cells infected with viruses. IL-29 may play a role in antiviral immunity. IL-29 upregulates MHC class I antigen expression. It is a Ligand for the heterodimeric class II cytokine receptor composed of IL10RB and IL28RA. The ligand/receptor complex seems to signal through the Jak-STAT pathway.