

HUMAN IL-29 (C-10HIS) PROTEIN**Cat.#:** 12065**Product Name:** Human IL-29 (C-10His) Protein**Size:** 10 µg, 50 µg and 100 µg**Synonyms:** Interferon lambda-1; IFN-lambda-1; Cytokine Zcyto21; Interleukin-29; IL-29; IFNL1; IL29; ZCYTO21**Target:** IL-29**UNIPROT ID:** Q8IU54**Description:** Recombinant Human Interferon Lambda-1 is produced by our Mammalian expression system and the target gene encoding Gly20–Thr200 is expressed with a 10His tag at the C-terminus.**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 IL-10 receptor beta (IL-10R 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 up-regulates 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.**Species/Host:** HEK293**Molecular Weight:** 21.4 KDa**Molecular Characterization:** Not available**Purity:** The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.**Formulation & Reconstitution:** Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.**Storage & Shipping:** Store at –20°C to –80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at –80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

