

## HUMAN IL-28A (C-6HIS) PROTEIN

**Cat.#:** 12094

**Product Name:** Human IL-28A (C-6His) Protein

**Size:** 10 µg, 50 µg and 100 µg

**Synonyms:** Interferon lambda-2;IFN-lambda-2;Cytokine Zcyto20;Interleukin-28A;IL-28A;IFNL2;IL28A;ZCYTO20

**Target:** IL-28A

**UNIPROT ID:** Q8IZJ0

**Description:** Recombinant Human Interferon Lambda-2 is produced by our Mammalian expression system and the target gene encoding Val26–Val200 is expressed with a 6His tag at the C-terminus.

**Background:** IL-28A (Interferon- $\lambda$ 2? IFN- $\lambda$ 2), IL-28B/IFN- $\lambda$ 3, and IL-29/IFN- $\lambda$ 1 are type III interferons which are distantly related to IL-10 family and type I IFN family cytokines. Mature human IL-28A is an approximately 22–25 kDa protein that shares 66% amino acid (aa) sequence identity with mouse and rat IL-28A and shows cross-species activity. It shares 96% and 70% aa sequence identity with human IL-28B and IL-29, respectively. IL-28A promotes the Th1 polarization of dendritic cells in the airway and inhibits Th2 and Th17 mediated inflammation. IL-28A additionally exhibits anti-tumor activity, in part by enhancing IL-12 dependent anti-tumor CTL responses in vivo. In contrast, it is up-regulated in invasive bladder cancer where it promotes tumor cell migration.

**Species/Host:** HEK293

**Molecular Weight:** 20.6 KDa

**Molecular Characterization:** Not available

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

**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  $-20^{\circ}\text{C}$  to  $-80^{\circ}\text{C}$  for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at  $-80^{\circ}\text{C}$  (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

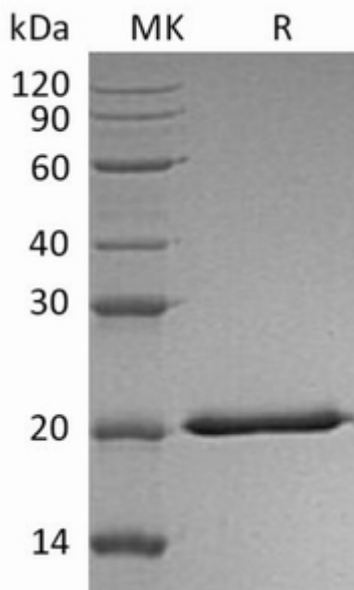


Figure 1. Greater than 95% as determined by reducing SDS-PAGE.