



Recombinant Protein Technical Manual

Recombinant Human Interferon Lambda-2/IL-28A Protein (His Tag)
RPES1722

Product Data:

Product SKU: RPES1722

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: Q8IZJ0

Protein Information:

Molecular Mass: 20.6 kDa

AP Molecular Mass: 20 kDa

Tag: C-6His

Bio-activity:

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

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: 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.

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-2; IFN-lambda-2; Cytokine Zcyto20; Interleukin-28A; IL-28A; IFNL2; IL28A; ZCYTO20

Immunogen Information:

Sequence: Val26-Val200

Background:

IL-28A (Interferon- λ 2? IFN- λ 2), IL-28B/IFN- λ 3, and IL-29/IFN- λ 1 are type III interferons which are distantly related to ILO 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 IL2 dependent anti-tumor CTL responses in vivo. In contrast, it is up-regulated in invasive bladder cancer where it promotes tumor cell migration.