

Recombinant Human IL-28A

Cat. #: SI28A-010

Product Specifications

- Expression of Human Proteins in Human Cells
- Extremely Low Endotoxin Level
- High Purity
- Animal Free and Xeno Free
- Tag Free

Protein Description

IL-28A, also named interferon $\lambda 2$ (IFN $\lambda 2$), belongs to the type III interferon protein family, which is distinct from the type I IFNs. IL-28A is induced by virus infection or double stranded RNA. IL-28A 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. IL-28A has antiviral, antitumour and immunomodulatory activities, plays a critical role in the antiviral host defense, predominantly in the epithelial tissues.

References

Donnelly RP, et al. (2010) J. Interferon Cytokine Res. 30, 555-564.

Sheppard P, et al. (2003) Nat. Immunol. 4, 63-68.

Source: Derived from human cells

Size: 10 μ g

Shipping: Ambient temperature

Structure: Glycosylated monomer

Purity: >95% by SDS-PAGE

Endotoxin Level: <0.5 EU/ μ g

Molecular Weight: 24 kDa

Formulation: Lyophilized from a 0.2 μ m filtered solution in PBS without carrier protein

Activity Assay

Activity was measured by its anti-virus function in A549 cells (human lung adenocarcinoma epithelial cell line) infected with encephalomyocarditis (EMC) virus.

Reconstitution

Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile PBS containing 0.1% endotoxin-free recombinant human serum albumin.

Stability and Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles. In general: 12 months from date of receipt, -20 to -80° C as supplied. 1 month, 2 to 8° C under sterile conditions after reconstitution. 3 months, -20 to -80° C under sterile conditions after reconstitution.

