

IL-29 Protein, Human, Recombinant (E. coli)

General Information

Synonyms:	Interferon- λ 1;IFN λ 1
Protein Construction:	Gly20-Thr200
Species:	Human
Expression Host:	E. coli
Accession:	Q8IU54
Molecular Weight:	19.8 kDa (Predicted)

QC Testing

Biological Activity:	Fully biologically active when compared to standard. The ED50 as determined by an anti-viral assay using human HepG2 cells infected with encephalomyocarditis is less than 5.0 ng/ml, corresponding to a specific activity of $> 2.0 \times 10^5$ IU/mg.
Purity:	$> 97\%$ as determined by SDS-PAGE; $> 97\%$ as determined by HPLC
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 μ m filtered solution in PBS, pH 7.4.

Preparation and Storage

Reconstitution:

It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml.

Stability & Storage:

Upon receiving, this product remains stable for up to 6 months at -70°C or -20°C . Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C . Avoid repeated freeze-thaw cycles.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

IL-28A, IL-28B, and IL-29, also named interferon- λ 2 (IFN- λ 2), IFN- λ 3, and IFN- λ 1, respectively, are newly identified class II cytokine receptor ligands that are distantly related to members of the IL-10 family (11-13% aa sequence identity) and the type I IFN family (15-19% aa sequence identity). The expression of IL-28A, B, and IL-29 is induced by virus infection or double-stranded RNA. All three cytokines exert bioactivities that overlap those of type I IFNs, including antiviral activity and up-regulation of MHC class I antigen expression. The three proteins signal through the same heterodimeric receptor complex that is composed of the IL-10 receptor β (IL-10 R β) and a novel IL-28 receptor α (IL-28 R α , also known as IFN- λ R1). Ligand binding to the receptor complex induces Jak kinase activation

and STAT1 and STAT2 tyrosine phosphorylation.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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