

IFNL2

Recombinant Human IFN-lambda 2 His

Catalog No.	CRI266B	Quantity:	25 µg
Alternate Names:	IL28A, IL-28A		
Description:	<p>Human Interleukin-28A/Interferon-Lambda 2. IL-28A, IL-28B, and IL-29, also named interferon-λ2 (IFN-λ2), IFN-λ3, and IFN-λ1, 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 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 with 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 Rβ) and a novel IL-28 receptor α (IL-28 Rα, also known as IFN-λ R1). Ligand binding to the receptor complex induces Jak kinase activation and STAT1 and STAT2 tyrosine phosphorylation. The phosphorylated STAT1 and STAT2 complex with IFN-regulatory factor 9 (IRF-9) to form the IFN-stimulated regulatory factor 3 (ISGF-3) transcription factor complex that is translocated to the nucleus. ISGF-3 binds to the IFN-stimulated response element (ISRE) present in the regulatory regions of the target genes. Human IL-28A cDNA encodes a 200 amino acid (aa) residue precursor protein with a putative 25 aa signal peptide. It shares 94% and 67% aa sequence identity with human IL-28B and human IL-29, respectively.</p>		
Gene ID:	282616		
Source:	NSO cells. DNA sequence encoding human IL-28A (Met 1 - Val 200) with a C-terminal His tag was expressed in NSO mouse myeloma cells.		
Molecular Weight:	Based on N-terminal sequencing, the mature recombinant IL-28A starts at Val 26 and has a calculated molecular mass of 20.8 kDa. As a result of glycosylation, the recombinant monomer migrates as an approximately 24 kDa protein in SDS-PAGE under		
Formulation:	Lyophilized in PBS, pH 7.4, + 50 µg of BSA per 1 µg IFN-lambda 2		
Purity:	>97%		
Endotoxin Level:	< 1 EU/µg		
Biological Activity:	Measured in an anti-viral assay using human HepG2 cells infected with encephalomyocarditis virus. The ED ₅₀ for this effect is typically 10 - 50 ng/ml.		
Reconstitution:	Centrifuge vial prior to opening. It is recommended that sterile PBS containing at least 0.1% human serum albumin or bovine serum albumin be added to the vial to prepare a stock solution of no less than 10µg/ml.		

Storage & Stability: After receipt, this product should be kept at -80°C for retention of full activity. Upon reconstitution, this cytokine can be stored under sterile conditions at 2°C to 8°C for one month or at -20°C to -80°C for three months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

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