

Recombinant Human Interleukin 28A (Interferon, Lambda 2), His-tagged

Cat. No. IL28A-221H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human interleukin 28A DNA sequence encoding the signal peptide from human CD33 was fused to the carboxylterminally his-tagged mature human IL-29 (Gly 20 - Thr 200) was expressed in <i>mouse NSO Cells</i> .
Species	Human
Source	Mammalian Cells
Description	Interleukin-28A (IL-28A) also known as IFNL2 is a novel cytokine that exerts its biological effects through a receptor that also binds IL28B and IL29. IL28A induces phosphorylation of STAT1, STAT2, and STAT3. IL-28A has antiviral activities and stimulates antiviral responses through a heterodimeric receptor. IL-28A represents a potential novel approach for therapy of Th1-mediated inflammatory diseases such as T-cell-mediated hepatitis.
Molecular Weight	The predicted molecular weight of Recombinant Human IL-28A is Mr 20.8 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 24 kDa.
State Of Matter	Lyophilized.
Formulation	This recombinant protein was 0.2 µm filtered and lyophilized from modified Dulbecco's phosphate buffered saline (1X PBS) pH 7.2 – 7.3 with no calcium, magnesium, or preservatives.

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Purity	> 97% by SDS Page and analyzed by silver stain.
Endotoxin	< 1.0 EU/g as determined by the LAL method.
Biological Activity	The biological activity of Human IFN- λ 2 was determined by in an anti-viral assay using human HepG2 cells infected with encephalomyocarditis virus. The expected ED50 for this effect is typically 1 - 5 ng/mL.
Storage And Stability	This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions.

GENE INFORMATION

Gene Name	IL28A interleukin 28A (interferon, lambda 2) [Homo sapiens]
Synonyms	IL28A; interleukin 28A (interferon, lambda 2); IFNL2; IL-28A; IFN-lambda-2; interferon lambda 2; interferon-lambda 2; Interleukin-28A; Interferon lambda-2; IFN-lambda-2; ZCYTO20; Cytokine ZCYTO20
Gene ID	282616
mRNA Refseq	NM_172138
Protein Refseq	NP_742150
UniProt ID	Q8IZJ0
Chromosome Location	19q13.13

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MIM	607401
Pathway	Cytokine-cytokine receptor interaction; Jak-STAT signaling pathway
Function	Cytokine activity

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