

Recombinant Human Interleukin 29 (Interferon, Lambda 1), His-tagged

Cat. No. IL29-222H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human interleukin 29 DNA sequence encoding the signal peptide from human CD33 was fused to the carboxylterminally his-tagged mature human IL-29 (Gly 20 - Thr 200). The chimeric protein was expressed in a mouse <i>NSO Cells</i> .
Species	Human
Source	Mammalian Cells
Description	Interleukin-29 (IL-29), also known as IFN-lambda1, is a protein of the helical cytokine family and is a type III interferon. It is also known as IFNλ1 and is highly similar in amino acid sequence to the IL-28, the other type III interferon. IL-29 stimulates antiviral responses through a heterodimeric receptor. It plays an important role in host defenses against microbes and its gene is highly upregulated in cells infected with viruses.
Molecular Weight	The predicted molecular weight of Recombinant Human IL-29 is Mr 21.4 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 26-35 kDa.
State Of Matter	Lyophilized.
Formulation	This recombinant protein was 0.2 μ 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	> 95% 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-Lambda1 was determined in an anti-viral assay using human HepG2 cells infected with encephalomyocarditis. 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	IL29 interleukin 29 (interferon, lambda 1) [Homo sapiens]
Synonyms	IL29; IL-29; IFNL1; IL-28A; IL-28B; IFN-lambda-1; ZCYTO21; interferon-λ2 (IFN-λ2); IFN-λ3; and IFN-λ1; Cytokine ZCYTO21; Interferon lambda-1; interferon, lambda 1; interleukin 29; interleukin 29 (interferon, lambda 1)
Gene ID	282618
mRNA Refseq	NM_172140
Protein Refseq	NP_742152
UniProt ID	Q8IU54
Chromosome Location	19q13.13

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MIM	607403
Pathway	Cytokine-cytokine receptor interaction; Jak-STAT signaling pathway
Function	cytokine activity; interleukin-28 receptor binding

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