



Recombinant Human IFN-lambda1 (IL-29)

20150227BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	100-193S
Size:	5 µg
Lot. No.:	According to product label

Scientific Background

Gene-ID (NCBI):	282618
Synonyms:	IL29; IFNL1; IL-29; IL-29, IL-28A; IL-28B

IFN lambda-1,-2, and -3 are distantly related to the IL-10 family and interferons. All three IFN-lambdas use a distinct receptor system composed of an IFN-lambdaR1 subunit (also called CRF2-12) and IL-10R2 subunit (also called CRF2-14). Signaling through this receptor system induces antiviral defense similar but distinct than the type I interferons (Kotenko, SV. et al. Nat Immunology 2003 [1] p. 69-77). Recombinant human IFN-lambda 1 is a 19.8 kDa protein containing 178 amino acid residues.

Sequence

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PTSKPTTTGK GCHIGRFKSL SPQELASFKK ARDALEESLK  
LKNWSCSSEV FPGNWDLRLL QVRERPVALE AELALTLKVL  
EAAAGPALED VLDQPLHTLH HILSQLQACI QFQPTAGPRP  
RGRLHHWLHR LQEAPKESA GCLEASVTFN LFRLLTRDLK  
YVADGNLCLR TSTHPEST
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Database References

Protein RefSeq:	NP_742152.1
Uniprot ID:	Q8IU54
mRNA RefSeq:	NM_172140.1

Product Specifications

Expressed in	E. coli
Purity	> 98% by SDS-PAGE & HPLC analyses
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	178
MW:	19.8 kDa

Biological Activity: Determined by its ability to activate STAT phosphorylation in an ISRE Luciferase Reporter Assay using human colon carcinoma COLO205 cells. The expected ED50 is 0.2-0.5 ng/ml.



AVOID REPEATED FREEZE AND THAW CYCLES!