

Active Recombinant Human IFNL1 Protein

Cat. No. IFNL1-17H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IFNL1 Protein without tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	178 amino acids
Description	This gene encodes a cytokine distantly related to type I interferons and the IL-10 family. This gene, interleukin 28A (IL28A), and interleukin 28B (IL28B) are three closely related cytokine genes that form a cytokine gene cluster on a chromosomal region mapped to 19q13. Expression of the cytokines encoded by the three genes can be induced by viral infection. All three cytokines have been shown to interact with a heterodimeric class II cytokine receptor that consists of interleukin 10 receptor, beta (IL10RB) and interleukin 28 receptor, alpha (IL28RA).
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	Fully biologically active when compared to standard. The ED50 is determined in an anti-viral assay using human HepG2 cells infected with encephalomyocarditis is typically 1-5 ng/mL, corresponding to a Specific Activity of 2×10^5 IU/mg.
Molecular Mass	19.8 kDa, a single non-glycosylated polypeptide chain containing 178 amino acids.
AA Sequence	PTSKPTTTGKGCHIGRFKSLSPQELASFKKARDALEESLKLKNWSCSSPVFPGNWD

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LRLQVRRERPVALEAELATLKVLEAAAGPALEDVLDQPLHTLHHILSQLQACIQPQP
TAGPRPRGRLHHWLHRLQEAPKKESAGCLEASVTFLNLFRLLTRDLKYVADGNLCLR
TSTHPEST

Endotoxin Less than 1 EU/μg of rHuIFN-λ1 as determined by LAL method.

Purity >97% by SDS-PAGE and HPLC analyses.

Storage This lyophilized preparation is stable at 2-8 centigrade, but should be kept at -20 centigrade for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 centigrade. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 or -70 centigrade. Avoid repeated freeze/thaw cycles.

Storage Buffer Lyophilized from a 0.2μm filtered concentrated solution in 20mM PB, pH 7.4, 130mM NaCl.

Reconstitution We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at < -20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name IFNL1 interferon lambda 1 [Homo sapiens (human)]

Official Symbol IFNL1

Synonyms IFNL1; interferon lambda 1; IL29; IL-29; interferon lambda-1
IFN-lambda-1

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cytokine Zcyto21
interleukin 29 (interferon, lambda 1)
interleukin-29

Gene ID 282618

mRNA Refseq NM_172140

Protein Refseq NP_742152

MIM 607403

UniProt ID Q8IU54

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