

## Active Recombinant Human IFNL1 Protein

Cat. No. IFNL1-047H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human interleukin-29 carries a mutation of Cys171 (which does not participate in disulfide bonding) in the wild-type IL-29 protein, while retaining the disulfide bonds Cys15-Cys112 and Cys49-Cys145.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	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).
<b>Form</b>	Sterile lyophilized powder
<b>Molecular Mass</b>	~20.0 kDa
<b>Bio-activity</b>	Activity is determined by the HepG2 cytopathic-effect inhibition assay, with an ED50 of < 20 ng/mL.
<b>Endotoxin</b>	<1 EU/μg determined by LAL.

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<b>Purity</b>	≥97%
<b>Storage</b>	Lyophilized samples remain stable for more than 6 months from the date of receipt when stored at –20 to –70 centigrade. Avoid repeated freeze–thaw cycles.
<b>Storage Buffer</b>	This product is supplied as a sterile lyophilized powder in a buffer containing PBS, 5% trehalose, and 0.01% Tween-80, pH 7.4.
<b>Reconstitution</b>	Before opening the vial, centrifuge at 10, 000 rpm for 30–60 seconds, or at 3, 000 rpm for 5 minutes, then reconstitute with 0.2 mL of sterile water.

## GENE INFORMATION

<b>Gene Name</b>	IFNL1 interferon lambda 1 [ Homo sapiens (human) ]
<b>Official Symbol</b>	IFNL1
<b>Synonyms</b>	IFNL1; interferon lambda 1; IL29; IL-29; interferon lambda-1; IFN-lambda-1; cytokine Zcyto21; interleukin 29 (interferon, lambda 1); interleukin-29
<b>Gene ID</b>	282618
<b>mRNA Refseq</b>	NM_172140
<b>Protein Refseq</b>	NP_742152
<b>MIM</b>	607403
<b>UniProt ID</b>	Q8IU54

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