

Active Recombinant Human IFNL1 Protein

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	E.coli
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 lyophilized powder
Molecular Mass	~20.0 kDa
Bio-activity	Activity is determined by the HepG2 cytopathic-effect inhibition assay, with an ED50 of < 20 ng/mL.
Endotoxin	<1 EU/μg determined by LAL.

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Purity	≥97%
Storage	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.
Storage Buffer	This product is supplied as a sterile lyophilized powder in a buffer containing PBS, 5% trehalose, and 0.01% Tween-80, pH 7.4.
Reconstitution	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

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; 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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