

## Animal-Free IFN-lambda 1/IL-29 Protein, Human (His)

<b>Cat. No.:</b>	HY-P700121AF
<b>Synonyms:</b>	rHuIFN-λ1/IL-29; IL-29; IFN-lambda-1; Cytokine Zcyto21; Interleukin-29
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Accession:</b>	Q8IU54 (P23-T200)
<b>Gene ID:</b>	282618
<b>Molecular Weight:</b>	Approximately 20.70 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> M P T S K P T T T G   K G C H I G R F K S   L S P Q E L A S F K   K A R D A L E E S L K L K N W S C S S P   V F P G N W D L R L   L Q V R E R P V A L   E A E L A L T L K V L E A A A G P A L E   D V L D Q P L H T L   H H I L S Q L Q A C   I Q P Q P T A G P R P R G R L H H W L H   R L Q E A P K K E S   A G C L E A S V T F   N L F R L L T R D L K Y V A D G N L C L   R T S T H P E S T </pre>
<b>Biological Activity</b>	Measure by its ability to induce IL-8 secretion in HuH7 cells. The ED <sub>50</sub> for this effect is <6 ng/mL.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a solution containing 1X PBS, pH 8.0, trehalose.
<b>Endotoxin Level</b>	<0.1 EU per 1 µg of the protein by the LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years from date of receipt. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	IFN-lambda 1/IL-29 Protein, a multifaceted cytokine, exhibits antiviral, antitumor, and immunomodulatory activities. It plays a crucial role in antiviral host defense, particularly in epithelial tissues. Functioning as a ligand for the heterodimeric class II cytokine receptor composed of IL10RB and IFNLR1, receptor engagement triggers the activation of the JAK/STAT signaling pathway, leading to the expression of IFN-stimulated genes (ISG) that mediate the antiviral state. Notably, its receptor distribution is limited, predominantly active in epithelial cells due to the epithelial cell-specific expression of its
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receptor IFNLR1. This cell type-selective action contributes to its targeted efficacy. Additionally, IFN-lambda 1/IL-29 exerts an immunomodulatory effect by up-regulating MHC class I antigen expression, further enhancing its role in immune responses.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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