

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

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

PROPERTIES

AA Sequence	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
Biological Activity	Measure by its ability to induce IL-8 secretion in HuH7 cells. The ED ₅₀ for this effect is <6 ng/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a solution containing 1X PBS, pH 8.0.
Endotoxin Level	<0.1 EU per 1 µg of the protein by the LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. 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.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	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 receptor IFNLR1. This cell type-selective action contributes to its targeted efficacy. Additionally, IFN-lambda 1/IL-29 exerts
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an immunomodulatory effect by up-regulating MHC class I antigen expression, further enhancing its role in immune responses.

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

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