

Animal-Free IFN-lambda 3/IL-28B Protein, Human (His)

Cat. No.: HY-P700120AF

Interferon lambda-3; IFN-lambda-3; IL-28B; IL-28C; ZCYTO22 Synonyms:

Species: E. coli Source:

Q8IZI9 (V22-V196) Accession:

Gene ID: 282617

Molecular Weight: Approximately 25.57 kDa

PROPERTIES

AA Sequence	
72.004.000	MVPVARLRGA LPDARGCHIA QFKSLSPQEL QAFKRAKDAL
	EESLLLKDCK CRSRLFPRTW DLRQLQVRER PVALEAELAL
	TLKVLEATAD TDPALGDVLD QPLHTLHHIL SQLRACIQPQ
	PTAGPRTRGR LHHWLHRLQE APKKESPGCL EASVTFNLFR
	LLTRDLNCVA SGDLCV
Biological Activity	Measure by its ability to protect HepG2 cells infected with encephalomyocarditis (EMC) virus. The ED ₅₀ for this effect is <5
	ng/mL.
Appearance	Lyophilized powder.
Арреагансе	Lyophinized powder.
Formulation	Lyophilized from a solution containing 1X PBS, pH 8.0.
Endotoxin Level	<0.01 EU per 1 µg of the protein by the LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 $\mu g/mL$ 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.

Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

Shipping

IFN-lambda 3/IL-28B Protein, a multifaceted cytokine, exhibits antiviral, antitumor, and immunomodulatory activities, playing a pivotal role in antiviral host defense, particularly within epithelial tissues. Serving as a ligand for the heterodimeric class II cytokine receptor consisting of IL10RB and IFNLR1, its engagement initiates the JAK/STAT signaling pathway, leading to the expression of IFN-stimulated genes (ISG) that establish the antiviral state. Notably, its receptor distribution is constrained, primarily exerting effects in epithelial cells due to the cell type-specific expression of the receptor IFNLR1.

While not considered essential for early virus-activated host defense in vaginal infection, it proves crucial in Toll-like receptor (TLR)-induced antiviral defense and significantly contributes to the antiviral immune defense in the intestinal epithelium. Additionally, IFN-lambda 3/IL-28B exerts an immunomodulatory effect by up-regulating MHC class I antigen expression, enhancing its impact on immune responses.

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA

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