

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

Cat. No.:	HY-P700204AF
Synonyms:	IFN-λ3; IFL-1; INF-I; Interferon lambda-3; IFN-lambda-3; IL-28B; Ifnl3
Species:	Mouse
Source:	E. coli
Accession:	Q8CGK6 (D20-V193)
Gene ID:	338374
Molecular Weight:	Approximately 20.56 kDa

PROPERTIES

AA Sequence	<p>MDPVP R A T R L P V E A K D C H I A Q F K S L S P K E L Q A F K K A K G A I</p> <p>E K R L L E K D M R C S S H L I S R A W D L K Q L Q V Q E R P K A L Q A E V A L</p> <p>T L K V W E N I N D S A L T T I L G Q P L H T L S H I H S Q L Q T C T Q L Q A T</p> <p>A E P K P P S R R L S R W L H R L Q E A Q S K E T P G C L E D S V T S N L F Q L</p> <p>L L R D L K C V A S G D Q C V</p>
Biological Activity	Measure by its ability to protect HepG2 cells infected with encephalomyocarditis (EMC) virus. The ED ₅₀ for this effect is <20 ng/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a solution containing 1X PBS, pH 7.4, trehalose.
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. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	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.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	IFN-lambda 3/IL-28B Protein is a cytokine that exhibits antiviral, antitumour, and immunomodulatory properties. It plays a crucial role in the host defense against viruses, particularly in epithelial tissues. This protein acts as a ligand for the IL10RB and IFNLR1 receptor complex, leading to the activation of the JAK/STAT signaling pathway and the expression of IFN-stimulated genes (ISG) that contribute to the antiviral state. Its receptor is primarily expressed in epithelial cells, which
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explains its cell type-selective action. Although it may not be essential for early host defense in vaginal infections, it plays a significant role in Toll-like receptor (TLR)-induced antiviral defense and the immune defense in the intestinal epithelium. Furthermore, IFN-lambda 3/IL-28B Protein also exerts an immunomodulatory effect by up-regulating MHC class I antigen expression.

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 F, Monmouth Junction, NJ 08852, USA