IFN-lambda 2/IL-28A Protein, Mouse (HEK293, N-His)

Cat. No.:	HY-P7991A
Synonyms:	Interferon-λ2, IFN-λ2, IL-28A
Species:	Mouse
Source:	HEK293
Accession:	Q4VK74 (D20-193V)
Gene ID:	330496
Molecular Weight:	Approximately 27 kDa

PROPERTIES

AA Sequence	D P V P 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 D A I E K R L L E K D L R C S S H L F P R A W D L K Q L Q V Q E R P K A L Q A E V A L T L K V W E N M T D S A L A 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 A E P R S 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 A S V T S N L F R L L T R D L K C V A N G D Q C V
Biological Activity	Measured in a cell inhibitor assay using A549 cells. The ED_{50} for this effect is 2.972 ng/mL, corresponding to a specific activity is 3.365×10^5 units/mg.
Appearance	Lyophilized powder
Formulation	Lyophilized a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in PBS, pH 7.4. 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. 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 2/IL-28A Protein, a versatile cytokine, exhibits antiviral, antitumoral, and immunomodulatory activities, playing a crucial role in antiviral host defense, primarily within epithelial tissues. Functioning as a ligand for the heterodimeric class II cytokine receptor, consisting of IL10RB and IFNLR1, its receptor engagement initiates the JAK/STAT signaling pathway, resulting in the expression of IFN-stimulated genes (ISG) that establish an antiviral state. With a confined receptor

distribution, it predominantly operates in epithelial cells due to the epithelial cell-specific expression of its receptor IFNLR1. While not deemed essential for early virus-activated host defense in vaginal infection, it assumes a significant role in Toll-like receptor (TLR)-induced antiviral defense and plays a crucial part in the antiviral immune defense in the intestinal epithelium. Additionally, IFN-lambda 2/IL-28A exerts an immunomodulatory effect by up-regulating MHC class I antigen expression, contributing to its impact on immune responses.

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