IFNL2
Recombinant Mouse IFN-lambda 2

Catalog No.	CRI020A CRI020B CRI020C	**Quantity:**	5 µg 20 µg 1 mg

Alternate Names: IL28A, IL-28A

Description: Murine IFN-lambda 2 (IL-28A) and IFN-lambda 3 (IL-28B) are class II cytokine receptor ligands that are distantly related to members of the IL-10 family (11 - 13% aa sequence identity) and type I IFN family (15 - 19% aa sequence identity). These cytokines exert bioactivities that overlap with those of type I IFNs, including antiviral activity and up-regulation of MHC class I antigen expression. The proteins signal through the same heterodimeric receptor complex that is composed of the IL-10 receptor beta (IL-10 R beta) and a novel IL-28 receptor alpha (IL-28 R alpha, also known as IFN-lambda R1). Murine IL-28A shares 64%, 65%, and 56% aa identity with human IL-28A, IL-28B, and IL -29, respectively.

Recombinant Mouse IFN-lambda 2 is a single non-glycosylated polypeptide chain containing 174 amino acids.

GeneID: 330496

Source: *E. coli*

Molecular Weight: 19.7 kDa

Formulation: Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4, + 5% trehalose.

Purity: > 95% as determined by SDS-PAGE and HPLC analyses

Endotoxin Level: < 0.10.1 EU/µg as determined by LAL method.

Biological Activity: Fully biologically active when compared to standard. The ED_{50} as determined by an anti-viral assay using human HepG2 cells infected with encephalomyocarditis is less than 3 ng/ml.

Specific Activity: $>3.3 \times 10^5$ IU/mg.

Amino Acid Sequence: DPVPRATRLP VEAKDCHIAQ FKSLSPKELQ AFKKAKDAIE KRLLEKDMRC SSHLISRAWD LKQLQVQERP KALQAEVALT LKVWENMTDS ALATILGQPL HTLSHIHSQL QTCTQLQATA EPKPPSRRLS RWLHRLQEAQ SKETPGCLED SVTSNLFRLL TRDLKCVASG DQCV

Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water or aqueous buffer to a concentration of 0.1-1.0 mg/ml. Further dilutions should be made in appropriate buffered solutions.

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Storage & Stability: The lyophilized protein is stable at 2-8°C. Upon receipt, store desiccated at -20°C. After reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C. For long term storage of reconstituted protein, it is recommended that a carrier protein such as 0.1% BSA or HSA be added. This depends on the particular application. **Avoid repeated freeze/thaw cycles.**

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