

**Recombinant Murine Interferon-lambda
2/Interleukin-28A
(rMuIFN-λ2/IL-28A)**
PrimeGene Technical Data Sheet

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| Catalog Number: | 126-08 |
| Source: | <i>Escherichia coli</i> . |
| Molecular Weight: | Approximately 19.7 kDa, a single non-glycosylated polypeptide chain containing 174 amino acids. |
| Quantity: | 5μg/20μg/1000μg |
| AA Sequence: | DPVPRATRLP VEAKDCHIAQ FKSLSPKELQ AFKKAKDAIE KRLLEKDMRC SSHLISRAWD LKQLQVQERP KALQAEVALT LKVWENMTDS ALATILGQPL HTLSHIHSQL QTCTQLQATA EPKPPSRRLS RWLHRLQEAQ SKETPGCLED SVTSNLFRL TRDLKCVASG DQCV |
| Purity: | > 95 % by SDS-PAGE and HPLC analyses. |
| 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, corresponding to a specific activity of > 3.3 × 10 ⁵ IU/mg. |
| Physical Appearance: | Sterile Filtered White lyophilized (freeze-dried) powder. |
| Formulation: | Lyophilized from a 0.2 μm filtered concentrated solution in PBS, pH 7.4, with 5 % trehalose. |
| Endotoxin: | Less than 0.1 EU/μg of rMuIFN-λ2/IL-28A as determined by LAL method. |
| Reconstitution: | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions. |
| Shipping: | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. |
| Stability & Storage: | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none">● 12 months from date of receipt, -20 to -70 °C as supplied.● 1 month, 2 to 8 °C under sterile conditions after reconstitution.● 3 months, -20 to -70 °C under sterile conditions after reconstitution. |
| Usage: | This material is offered by Shanghai PrimeGene Bio-Tech for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE. |

Murine Interferon-lambda 2/Interleukin-28A

Interferon lambda-2, as known as IL-28A, belongs to the lambda interferon family. IL-28A (IFN-λ2), IL-28B (IFN-λ3) and IL-29 (IFN-λ1) are type III interferons that are class II cytokine receptor ligands. These IFNs signal through a receptor complex consisting of IL10R2 (also called CRF2-4) and IFNLR1 (also called CRF2-12). Interferon lambda-2 displays potent antiviral activity and antitumor activity, so it plays a significant role in the antiviral immune defense in the intestinal epithelium. It also upregulate MHC class I antigen expression. Recombinant murine interferon lambda-2 contains 174 amino acids and it shares 81 % and 66 % a.a. sequence identity with rat and human IFN-λ2, respectively, and functions across species.