

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

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 SKETPGCLEL 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:	ChemWhat Limited in UK offers this branded product for research, development 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.