



## Interleukin-28B, mouse recombinant (rIL-28B)

**Catalog No:** 97641  
**Lot No:** XXXXX  
**Source:** *E. coli*  
**Synonyms:** Interferon lambda-3, IFN-lambda-3, Interleukin-28B, IL-28B, Ifnl3, Il28, Il28b, IFL-1, INF-alpha, INF-lambda

### Background

IL-28B is a cytokine remotely related to type I interferons and the IL-10 family. Interleukin-28B, interleukin 28A (IL28A), and interleukin 29 (IL29) are 3 closely related cytokine genes which form a cytokine gene cluster on a chromosomal region mapped to 19q13. Expression of the cytokines encoded by these 3 genes can be induced by viral infection. All 3 cytokines interact with a heterodimeric class II cytokine receptor which consists of interleukin 10 receptor, beta (IL10RB) and interleukin 28 receptor, alpha (IL28RA).

### Description

IL-28B Mouse Recombinant produced in *E. coli* is a single, non-glycosylated polypeptide chain containing 174 amino acids and having a molecular mass of 19.6 kDa. IL28B is purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

### Formulation

IL28B was lyophilized from a 0.2 µm filtered concentrated solution in 1 x PBS, pH 7.4.

### Solubility

It is recommended to reconstitute the lyophilized IL-28B in sterile 18 MΩ-cm H<sub>2</sub>O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

### Stability

Lyophilized IL-28B although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL28B should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Purity

Greater than 97.0% as determined by (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE.

### Amino Acid Sequence

DPVPRATRLP VEAKDCHIAQ FKSLSPKELQ AFKKAKGAIE KRLLEKDMRC SSSLISRAWD LKQLQVQERP KALQAEVALT  
LKVWENINDS ALTTILGQPL HTLSHIHSQL QTCTQLQATA EPKPPSRRLS RWLHRLQEAQ SKETPGCLEL SVTSNLFQLL  
LRDLKCVASG DQCV

### Activity

The ED<sub>50</sub> as determined by an anti-viral assay using human HepG2 cells infected with encephalomyocarditis is less than 30 ng/ml, corresponding to a specific activity of > 3.3 x 10<sup>4</sup> IU/mg.

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### Usage

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