

Recombinant Mouse Interleukin-28B (rm IL-28B)

Synonyms: Interferon lambda-3

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

Source: *Escherichia coli*

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: Lyophilized from a 0.2µm filtered concentrated solution in 1xPBS, pH 7.4.

Solubility: It is recommended to reconstitute the lyophilized rm IL-28B in sterile 18MΩ-cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability: Lyophilized rm IL-28B although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution rm IL-28B should be stored at 4°C between 2-7days, 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 and

(b) Analysis by SDS-PAGE.

Amino acid sequence: DPVPRATRLP VEAKDCHIAQ FKSLSPKELQ AFKKAKGAIE KRLLEKDMRC SSSLISRAWD LKQLQVQERP KALQAEVALT LKVVENINDS ALTTILGQPL HTLSHIHSQL QTCTQLQATA EPKPPSRRLS RWLHRLQEAQ SKETPGCLEL SVTSNLFQLL LRDLKCVASG DQCV.

Biological Activity: The ED₅₀ 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 × 10⁴ IU/mg.

This material is offered for **research only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	5 µg	Cat.N°	12349280
<i>medium</i>	20 µg	Cat.N°	12349284

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