

Mouse Interleukin-17B (mIL-17B)

<input type="checkbox"/> SC 10 µg (With Carrier)	<input type="checkbox"/> SF 10 µg (Carrier Free)
<input type="checkbox"/> LC 50 µg (With Carrier)	<input type="checkbox"/> LF 50 µg (Carrier Free)

Multi-milligram quantities available

New 09/11



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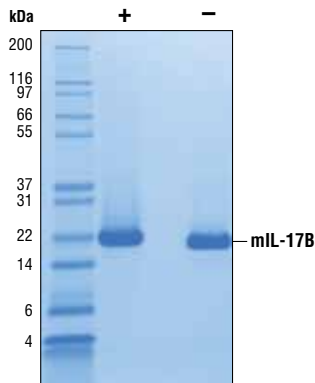
This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

Source: Recombinant mouse IL-17B (mIL-17B) His21-Phe180 (Accession #NP_062381) was produced in *E. coli* at Cell Signaling Technology.

Molecular Characterization: Recombinant mIL-17B has a Met on the amino terminus and has a calculated MW of 18,186. DTT-reduced and non-reduced protein migrate as 19 kDa polypeptides. The expected amino-terminal MHPRN of recombinant mIL-17B was verified by amino acid sequencing.

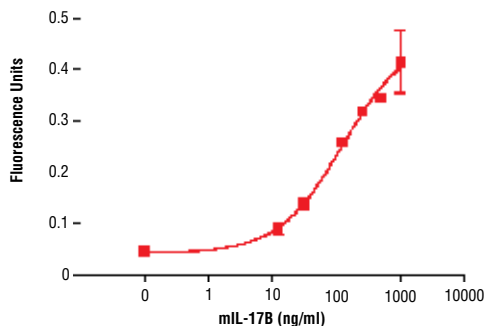
Endotoxin: Less than 0.01 ng endotoxin/1 µg mIL-17B.

Purity: >98% as determined by SDS-PAGE of 6 µg reduced (+) and non-reduced (-) recombinant mIL-17B. All lots are greater than 98% pure.



The purity of recombinant mIL-17B was determined by SDS-PAGE of 6 µg reduced (+) and non-reduced (-) recombinant mIL-17B and staining overnight with Coomassie Blue.

Bioactivity: The activity of mIL-17B was assessed by its ability to bind to IL-17RB in a functional ELISA. The concentration at which half-maximal binding was observed for each lot was 0.1-1.0 µg/ml.



◀ The activity of mIL-17B was assessed by its ability to bind to IL-17RB in a functional ELISA.

Formulation: With carrier: Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.2 containing 20 µg BSA per 1 µg mIL-17B.

Carrier free: Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.2.

Reconstitution:

With carrier: Add sterile PBS or PBS containing 1% bovine or human serum albumin or 5-10% FBS to a final mIL-17B concentration of greater than 50 µg/ml. Solubilize for 30 minutes at room temperature with occasional gentle vortexing.

Carrier free: Add sterile PBS or PBS containing protein to minimize absorption of mIL-17B to surfaces. Solubilize for 30 minutes at room temperature with occasional gentle vortexing. Stock mIL-17B should be greater than 50 µg/ml.

Storage: Stable in lyophilized state at 4°C for 1 year after receipt. Sterile stock solutions reconstituted with carrier protein are stable at 4°C for 2 months and at -20°C for 6 months. Avoid repeated freeze-thaw cycles.

Maintain sterility. Storage at -20°C should be in a manual defrost freezer.

Applications: Optimal concentration for the desired application should be determined by the user.

Background: IL-17B is a member of the IL-17 family of structurally related proteins (1). Unlike other IL-17 family members, IL-17B is a non-covalently linked homodimer (1,2). IL-17B is expressed by chondrocytes and neurons, and binds to the IL-17RB receptor (1-4). Human IL-17B has been shown to induce TNF-α and IL-1β from monocytic THP-1 cells and may be involved in neutrophil recruitment *in vivo* (3). However, the exact biological functions of IL-17B remain elusive.

Background References:

- (1) Iwakura, Y. et al. (2011) *Immunity* 34, 149-62.
- (2) Shi, Y. et al. (2000) *J Biol Chem* 275, 19167-76.
- (3) Moore, E.E. et al. (2002) *Neuromuscul Disord* 12, 141-50.
- (4) Li, H. et al. (2000) *Proc Natl Acad Sci U S A* 97, 773-8.