

## IL-17B Protein, Mouse (sf9, Fc)

Cat. No.:	HY-P75835
Synonyms:	Interleukin-17B; IL-17B; Cytokine Zcyto7; IL-20; NIRF; ZCYTO7
Species:	Mouse
Source:	Sf9 insect cells
Accession:	Q9QXT6 (M1-F180)
Gene ID:	56069
Molecular Weight:	Approximately 57 kDa

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 100 mM Glycine, 10 mM NaCl, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	<p>Interleukin-17B (IL-17B) belongs to the IL-17 cytokine family and is a proinflammatory cytokine. IL-17B is expressed in adult pancreas, small intestine, stomach, spinal cord and testis. Murine IL-17B mRNA was detected in the whole mouse embryo<sup>[1]</sup> [3].</p> <p>The mouse IL-17B shares 88.33% amino acid sequence identity with human.</p> <p>IL-17B is secreted as a non-covalent dimer glycoprotein. IL-17B shares about 27% amino acid identity with IL-17A and stimulates the release of tumour necrosis factor alpha (TNFα) and IL-1β in the THP-1 monocytic cell line. The receptor of IL-17B is IL-17RB, which belongs to the IL-17 receptor family. IL-17B shares IL-17RB with IL-17E. IL-17B inhibits IL-17E binding to IL-17RA/IL-17RB complexes, exhibits protumor roles and IL-17E antitumor activities<sup>[1]</sup>[2].</p> <p>IL-17B plays an important role in cancer progression, angiogenesis, and inflammatory arthritis<sup>[1]</sup>.</p>
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### REFERENCES

[1]. Sanders AJ, et al. IL-17B Can Impact on Endothelial Cellular Traits Linked to Tumour Angiogenesis. J Oncol. 2010;2010:817375.

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[2]. Bastid J, et al. The Emerging Role of the IL-17B/IL-17RB Pathway in Cancer. Front Immunol. 2020 Apr 21;11:718.

[3]. You Z, et al. Expression of interleukin-17B in mouse embryonic limb buds and regulation by BMP-7 and bFGF. Biochem Biophys Res Commun. 2005 Jan 21;326(3):624-31.

[4]. Yamaguchi Y, et al. IL-17B and IL-17C are associated with TNF- $\alpha$  production and contribute to the exacerbation of inflammatory arthritis. J Immunol. 2007 Nov 15;179(10):7128-36.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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