

IL-17B Protein, Mouse (His)

Cat. No.:	HY-P78315
Synonyms:	IL-17B; Cytokine CX1; IL20; interleukin 17B; interleukin 20; MGC138900; MGC138901; NIRF; ZCYTO7
Species:	Mouse
Source:	E. coli
Accession:	Q9QXT6 (H21-F180)
Gene ID:	56069
Molecular Weight:	Approximately 19.1 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of 20 mM PB, 2 mM DTT, 300 mM NaCl, 200 mM Arginine, pH 7.0. Normally 5% trehalose is added as protectant 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 ₂ 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^[1] [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^[1][2].</p> <p>IL-17B plays an important role in cancer progression, angiogenesis, and inflammatory arthritis^[1].</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.

[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- α production and contribute to the exacerbation of inflammatory arthritis. *J Immunol.* 2007 Nov 15;179(10):7128-36.

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

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