

Recombinant Human Interleukin-17B (rh IL-17B)

Synonyms: Cytokine Zcyto7, NIRF

Introduction: IL-17 family members are glycoproteins secreted as dimers which induce local cytokine production and recruit granulocytes to sites of inflammation. The IL-17 family is comprised of at least six pro-inflammatory cytokines that share a conserved cysteine-knot structure but diverge at the N-terminus. IL-17 is induced by IL-15 and IL-23, mostly in activated CD4+ T cells distinct from Th1 or Th2 cells. IL-17B binds the IL-17B receptor, but not the IL-17 receptor; it is most homologous with IL-17D, which is expressed by resting CD4+ T cells and CD19+ B cells. IL17B Diseases associated with IL17B include spondyloarthritis, and neuronitis, and among its related super-pathways are Mucin expression in CF via IL-6, IL-17 signaling pathways and STAT3 Pathway.

Description: Recombinant human Interleukin-17B produced in *E.Coli* is a homodimeric, non-disulfide-linked polypeptide chain containing a total of 322 amino acids (2 chains of 161aa) and having a molecular mass of 36.5kDa. The IL-17B is purified by proprietary chromatographic techniques.

Source: *Escherichia Coli*.

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

Formulation: Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4., 0.05% Tween-20 and 3% Trehalose

Solubility: It is recommended to reconstitute the lyophilized Interleukin 17B in sterile H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Stability: Lyophilized Interleukin 17B although stable at room temperature for 3 weeks, should be stored desiccated below -18C. Upon reconstitution IL17B should be stored at 4C between 2-7 days and for future use below -18C. 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 95.0% as determined by:

(a) Analysis by RP-HPLC.

(b) Analysis by SDS-PAGE.

Amino Acid Sequence: MQPRSPKSKR KGQGRPGPLA PGPHQVPLDL VSRMKPYARM EEYERNIEEM
VAQLRNSSEL AQRKCEVNLQ LWMSNKRSLSPWGYSINHDP SRIPVDLPEA RCLCLGCVNP FTMQEDRSMV
SVPVFSQVPV RRRLCPPPPR TGPCRQRAVM ETIAVGCTCI F.

Biological Activity: The biological activity of rec. human IL-17B was tested by inducing IL-8 secretion of human HepG2 cells. The specific activity is > 1 x 10³ IU/mg.

This material is offered for **research use 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°	11345170
<i>medium</i>	25 µg	Cat.N°	11345174

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