**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 spondyloarthropathy, 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 PGPHQVLDDL VSRMKPYARM EYEYERNIEEM VAQLRNSSEL AQRKCEVNLQ LWMSNKRSLS PWGYSINHDP SRIPVDLPEA RCLCLGCVNP FTMQEDRSMV SVPVFSQVPV RRRRLCPPPR 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 $> 1 \times 10^3$ IU/mg.

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Gladiolenweg 2; 26169 Friesoythe; Germany
phone:+49-(0)4491-400997, fax:+49-(0)4491-400998, info@immunotools.com
www.immunotools.com