



Interleukin 17B, human recombinant (rhIL20)

Catalog No: 99934
Lot No: XXXXX
Source: *E. coli*
Synonyms: Interleukin-17B, IL-17B, Cytokine Zcyto7, Interleukin-20, Neuronal interleukin-17-related factor, IL20, NIRF, ZCYTO7

Background

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. 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

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

Physical Appearance

Sterile filtered, white, lyophilized (freeze-dried) powder.

Formulation

Interleukin-17B was 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 18 MΩ-cm H₂O not less than 100 µg/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 -18°C. Upon reconstitution IL17B should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Amino Acid Sequence

MQPRSPKSKR KGQGRPGPLA PGPHQVPLDL VSRMKPYARM EYERNIEEM VAQLRNSSEL AQRKCEVNLQ LWMSNKRSL S
PWGYSINHDP SRIPVDLPEA RCLCLGCVNP FTMQEDRSMV SVPVFSQVPV RRRLCPPPPR TGPCRQRAVM ETIAVGCTCI F

Activity

The ED₅₀, as determined by inducing IL-8 secretion of human HepG2 cells, is less than 1.0 µg/ml, corresponding to a specific activity of > 1000 IU/mg.

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