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## Product Data Sheet

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Product Name: IL 17B Human  
 Cat. No.: GP20583  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Interleukin-17B; IL-17B; Cytokine Zcyto7; Interleukin-20; Neuronal interleukin-17-related factor; IL20; NIRF; ZCYTO7.		
Amino Acid Sequence	MQPRSPKSKR KGQGRPGPLA PGPHQVPLDL VSRMKPYARM EEYERNIEEM VAQLRNSSEL AQRKCEVNLQ LWMSNKRSLP PWGYSINHDP SRIPVDLPEA RCLCLGCVNP FTMQEDRSMV SVPVFSQVPV RRRLCPPPPR TGPCRQRAVM ETIAVGCTCI F.		
Solubility	It is recommended to reconstitute the lyophilized Interleukin 17B in sterile 18M-cm H <sub>2</sub> O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Interleukin-17B was Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH7.4, 0.05% Tween-20 and 3%Trehalose.		

### 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<sup>+</sup> 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<sup>+</sup> T cells and CD19<sup>+</sup> 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.

### Biological Activity

The ED50 as determined by inducing IL-8 secretion of human HepG2 cells is less than

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1.0µg/ml, corresponding to a specific activity of > 1000 IU/mg.

### 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.

### Background

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 161aa) and having a molecular mass of 36.5kDa. The IL-17B is purified by proprietary chromatographic techniques.

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