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Products	Human IL-17, research grade. Recombinant human interleukin 17.								
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5	130-093-958								
25	130-093-959								
100	130-094-625								
Biological activity	The ED ₅₀ is ≤5 ng/mL corresponding to an activity of ≥2×10 ⁵ U/mg. Note: The ED ₅₀ is determined by the ability to induce GROα production in HT-29 cells.								
Primary structure	Two identical, non-glycosylated disulfide-linked polypeptide chains including N-terminal methionine (137 amino acid residues each).								
Molecular mass	31.3 kDa (dimer).								
Source	Produced in <i>E. coli</i> .								
Product format	Lyophilized from a filtered (0.2 µm) buffer solution.								
Stabilizer	None.								
Purity	>97% as determined by SDS-PAGE analysis.								
Endotoxin level	Low endotoxin (<1.0 EU/µg cytokine) as determined by Limulus Amebocyte Lysate (LAL) assay.								
Storage	Lyophilized Human IL-17, research grade should be stored at -20 °C. The expiration date is indicated on the vial label. Upon reconstitution aliquots should be stored at -20 °C or below. Avoid repeated freeze-thaw cycles.								
Reconstitution	It is recommended to reconstitute lyophilized Human IL-17, research grade with deionized sterile-filtered water to a final concentration of 0.1–1.0 mg/mL in a minimal volume of 50 µL. Further dilutions should be prepared with 0.1% bovine serum albumin (BSA) or human serum albumin (HSA) in phosphate-buffered saline.								

1.1 Background information

Human interleukin 17 (IL-17), also termed IL-17A, is a disulfide-linked homodimer of two 15 kDa subunits, each containing 132 amino acid residues. The proinflammatory cytokine plays, for example, important roles during allergic responses and has functions during anti-microbial as well as chronic inflammations. IL-17 is produced by Th17 cells, δ T cells, NK cells, as well as neutrophils. The pleiotropic cytokine triggers the expression of other cytokines, such as IL-6, G-CSF, TNF- α or chemokines, in various cell types (fibroblasts, endothelial cells, epithelial cells or macrophages). Today six members of the family are known (IL-17A to F) that differ from one another in their N-terminal region. Due to their diverse roles, the IL-17 members have been associated with many immune/autoimmune related diseases.

1.2 Applications

Human IL-17 can be used for a variety of applications:

- Cultivation of musculoskeletal tissues, such as osteoblasts or cartilage, as well as keratinocytes.
- Research on lung inflammation and asthma.
- Chemotactic assays.

Optimal concentration for a specific application should be determined by a dose-response experiment.

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