

IL 17 Rat

Description: Interleukin-17A Rat Recombinant produced in E.Coli is a homodimeric, non-glycosylated polypeptide chain having a molecular mass of 30 kDa. The IL-17A Rat is purified by proprietary chromatographic techniques.

Catalog #: CYP5-549

For research use only.

Synonyms: CTLA-8, IL-17, IL-17A, Cytotoxic T-lymphocyte-associated antigen 8, Interleukin-17A.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Amino Acid Sequence: MAVLIPQSSV CPNAEANNFL QNVKVNKVL NSLSSKASSR
RPSDYLNRSST SPWTLRSNED PDRYPSVIWE AQCRHQRCVN AEGKLDHNM SVLIQGEILV
LKREPEKCPF TFRVEKMLVG VGCTCVSSIV RHAS.

Purity: Greater than 95.0% as determined by (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Formulation:

Lyophilized from a concentrated (1mg/ml) solution containing 10mM NaCitrate, pH-3.0.

Stability:

Lyophilized Interleukin Rat 17A although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Rat IL17 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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:

It is recommended to reconstitute the lyophilized Interleukin Rat 17A in sterile 18M-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Introduction:

IL17 is a proinflammatory cytokine produced by activated T cells. IL-17 regulates the activities of NF-kappaB and mitogen-activated protein kinases. Interleukin-17 can stimulate the expression of IL6 and cyclooxygenase-2 (PTGS2/COX-2), as well as enhance the production of nitric oxide (NO). High levels of IL-17 are associated with several chronic inflammatory diseases including rheumatoid arthritis, psoriasis and multiple sclerosis.

Biological Activity:

Rat IL-17A is fully biologically active when compared to standards via dose-dependent induction of IL-6 production in cultured mouse NIH 3T3 fibroblasts. The ED50 for recombinant rat IL-17A in this assay was 30ng/ml. The Specific Activity is 33333.33 units/mg.

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