



Mouse IL17A peptide (DAG289)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Recombinant Mouse IL-17 is a homodimeric, non-glycosylated polypeptide chain containing a total of 266 amino acids and having a molecular weight of 29,956 Da, the sequence of the first five N-terminal amino acids was determined to be Ala-Ala-Ile-Ile-Pro. Cont
Antigen Description	Interleukin-17 (IL-17, or IL-17A) is the founding member of a group of cytokines called the IL-17 family. IL-17A, was originally identified as a transcript from a rodent T-cell hybridoma by Rouvier et al. in 1993. Known as CTLA8 in rodents, IL-17 shows high homology to viral IL-17 encoded by an open reading frame of the T lymphotropic rhadinovirus Herpesvirus saimiri. Interleukin 17 is a cytokine that acts as a potent mediator in delayed – type reactions by increasing chemokine production in various tissues to recruit monocytes and neutrophils to the site of inflammation, similar to Interferon gamma. IL-17 is produced by T helper cells and is induced by IL – 23 which results in destructive tissue damage in delayed – type reactions. Interleukin 17 as a family functions as a proinflammatory cytokine that responds to the invasion of the immune system by extracellular pathogens and induces destruction of the pathogen's cellular matrix. Interleukin 17 acts synergistically with tumor necrosis factor and interleukin-1.
Species	Mouse
Conjugate	Unconjugated
Applications	The ED ₅₀ as determined by the dose-dependant secretion of IL-6 by NIH 3T3 cells was found to be 1.0-10 ng/ml. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in su
Format	Purified, Lyophilized. Reconstitute using sterile deionized water to a concentration $\geq 100 \mu\text{g/ml}$. Further dilutions can be made in other aqueous buffers.
Concentration	1 mg/ml (OD _{280nm} , E _{0.1%} = 0.942) (prior to lyophilization)
Buffer	Not applicable
Preservative	None

Storage2-8°C short term, -20°C long term

BACKGROUND

Introduction

The protein encoded by this gene is a proinflammatory cytokine produced by activated T cells. This cytokine regulates the activities of NF-kappaB and mitogen-activated protein kinases. This cytokine 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 this cytokine are associated with several chronic inflammatory diseases including rheumatoid arthritis, psoriasis and multiple sclerosis. [provided by RefSeq, Jul 2008]

Keywords

IL17A; interleukin 17A; IL17; CTLA8; IL-17; IL-17A; interleukin-17A; CTLA-8; cytotoxic T-lymphocyte-associated antigen 8; cytotoxic T-lymphocyte-associated protein 8; interleukin 17 (cytotoxic T-lymphocyte-associated serine esterase 8);

GENE INFORMATION

Entrez Gene ID[3605](#)**UniProt ID**[Q16552](#)
