

Growth Factor Data Sheet

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Rat Interleukin 17A (IL17A) belongs to the IL17 family that contains IL17A, IL17B, IL17C, IL17D, IL17E and IL17F. All of the members of the IL17 family are proinflammatory cytokines that share four conserved cysteine residues, but diverge at the N-terminus. Both recombinant and natural IL17 have been shown to exist as disulfide linked homodimers, and mature IL17 contains one potential N-linked glycosylation site. IL17 is a T-cell expressed pleiotropic cytokine that regulates the activities of NF-kappaB and mitogen-activated protein kinases, and can stimulate the expression of IL-6 and cyclooxygenase-2 (PTGS2/COX-2), as well as enhance the production of nitric oxide (NO).

Catalog Number	1510-17
Product Name	IL17A, Rat Recombinant Rat Interleukin 17A IL17, IL17A Cytotoxic T-Lymphocyte-Associated Serine Esterase 8 (CTLA8)
Source	<i>Escherichia coli</i>
MW	~30.0 kDa (homodimer of two 133 amino acid chains)
Sequence	AVLIPQSSVC PNAEANNFLQ NVKVNLIKVIN SLSSKASSRR PSDYLNRRSTS PWTLNRNEDP DRYPSVIWEA QCRHQRCVNA EGKLDHHMNS VLIQQEILVL KREPEKCPFT FRVEKMLVGV GCTCVSSIVR HAS
Accession Number	Q61453
Purity	>95% by SDS-PAGE and HPLC analyses
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ as determined by inducing IL-6 secretion of murine NIH/3T3 cells is less than 1.0 ng/ml, corresponding to a specific activity of >1.0×10 ⁶ IU/mg.
Formulation	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
Storage/Handling	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage. The reconstituted sample can be apportioned into working aliquots and stored at -80 °C for up to 6 months. Avoid repeated freeze/thaw cycles.
Reconstitution	The sample should be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in 4 mM HCl to a concentration of 0.1-1.0 mg/mL. Stock solutions should be aliquoted and stored at -80°C. Further dilutions should be made in appropriate buffered solutions containing BSA or serum.