

Recombinant Human Interleukin-17A (IL-17A)








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

Rev. 1.00

Catalog Number:	PHC9174	PHC9175	PHC9171	PHC9173
Quantity:	10 µg	25 µg	100 µg	1 mg
Lot Number:	See product label.			
Molecular Weight:	31 kDa. Recombinant human IL-17A is a disulfide-linked homodimer. Each subunit has a molecular weight of 15 kDa and contains 136 amino acid residues.			
Purity:	>95% as determined by SDS-PAGE analysis.			
Biological Activity:	ED ₅₀ range: 2–6 ng/mL. The biological activity was determined by measuring the dose-dependent induction of IL-6 secretion by normal human dermal fibroblasts (NHDF). This cytokine is also biologically active with murine cells. The optimal concentration for each specific application should be determined empirically by an initial dose-response assay. IL-17A is a member of a family of structurally related cytokines, designated IL-17A through IL-17F. These forms are highly conserved at their C-terminal regions, but possess different biological activities. IL-17A is secreted by activated T-cells. IL-17A plays a role in sustaining neutrophil recruitment, and is implicated in rheumatoid arthritis, airway remodeling, and airway hypersensitivity in response to allergens.			
Formulation:	Lyophilized, carrier free.			
Sterility:	Filtered prior to lyophilization through a 0.22 micron sterile filter.			
Endotoxin:	<0.1 ng/µg			
Production:	Recombinant human IL-17A is produced in <i>E. coli</i> and purified by sequential chromatography.			
Reconstitution Recommendation:	We recommend that the vial be briefly centrifuged prior to opening to bring the contents to the bottom. Lyophilized human IL-17A should be reconstituted in sterile, distilled water to a concentration of 0.1–1.0 mg/mL. For maximal stability, a carrier protein, such as 0.1–1.0% BSA, may be included. The reconstituted protein should be apportioned into working aliquots and stored at ≤ -20°C. Further dilutions should be made in low endotoxin medium or buffered solution with FBS or tissue culture grade BSA.			
Suggested Working Dilutions:	The optimal concentration should be determined for each specific application.			
Storage:	For maximal stability, store this lyophilized preparation at ≤ -20°C, preferably desiccated. For shipment and short term storage (up to 2 weeks), storage at 2°C to 8°C is sufficient. Reconstituted human IL-17A should be stored at ≤ -20°C (not in a frost-free freezer). Keep freeze-thaw cycles to a minimum.			
Expiration Date:	Expires one year from date of receipt when stored as instructed.			
References:	Kolls, J.K. and Linden, A. (2004) Interleukin-17 family members and inflammation. <i>Immunity</i> 21(4):467–476. Moseley, T.A, et al. (2003) Interleukin-17 family and IL-17 receptors. <i>Cytokine Growth Factor Rev.</i> 14(2):155–174.			

Explanation of Symbols

The symbols present on the product label are explained below:

Symbol	Description
	Catalog Number
	Research Use Only
	Use by
	Manufacturer
	Without, does not contain
	Protect from light
	Directs the user to consult instructions for use (IFU), accompanying the product.

Symbol	Description
	Batch code
	In vitro diagnostic medical device
	Temperature limitation
	European Community authorized representative
	With, contains
	Consult accompanying documents

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For Research Use Only. Caution: Not for human or animal therapeutic or diagnostic use.

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