

Product Data Sheet

Recombinant Human IL-17A/F Heterodimer (carrier-free)

Catalog # / Size:	580602 / 10 μg 580604 / 25 μg 580606 / 100 μg 580608 / 500 μg	3.0- 2.5-
Molecular Mass:	Recombinant hIL-17A/F is a disulfide linked heterodimer consisting of N-terminal methionylated hIL-17A and non-methionylated hIL-17F. The recombinant heterodimer has a predicted molecular mass of 30,552 Da. The DTT-reduced protein migrates as monomers, at approximately 16kDa by SDS-PAGE. The non-reduced protein migrates as a heterodimer, at approximately 31kDa by SDS-PAGE.	₩ 2.0- 95 9 1.5- 0 1.0-
Purity:	Purity is >98%, as determined by Coomassie stained SDS-PAGE.	0.5
Endotoxin Level:	Endotoxin level is < 0.1 EU/ μ g (< 0.01 ng/ μ g) protein as determined by the LAL method.	0.01 1 100 10000 ng/ml
Activity:	Activity was tested by induction of IL-6 in human skin fibroblasts by IL-17A/F. The ED50 is 15-25 ng/ml, corresponding to a specific activity of 6.6 - 4 x 10^4 units/mg. Under this assay the activity was comparable to other vendor's cytokine.	Induction of IL-6 in human skin fibroblast by IL-17A/IL-17F heterodimer.
Preparation:	10-100 μ g sizes are bottled at 200 μ g/mL. 500 μ g sizes and larger are bottled at the concentration indicated on the vial.	
Formulation:	0.22 µm filtered protein solution is in 10 mM NaH ₂ PO ₄ , 300 mM NaCl, pH 7.2.	
Storage:	Unopened vial can be stored at -20°C for six months or at -70°C for one year. For maximum results, quick spin vial prior to opening. Stock solutions should be prepared at no less than 10 µg/mL in buffer containing carrier protein such as 1% BSA or HSA or 10% FBS. For long term-storage, aliquot into polypropylene vials and store in a manual defrost freezer. Avoid repeated freeze/thaw cycles.	

Applications:

Applications: Bioassay

Description: IL-17A/F is part of the IL-17 cytokine family which consists of six structurally related proteins (IL-17A, B, C, D, E, and F). IL-17A is expressed primarily by Th17 cells, a subset of CD4 T cells. IL-17F is most closely related to IL-17A. The two molecules share 50% aminoacid sequence homology. Like IL-17A, IL-17F mRNA and protein have been detected in Th17 cells. IL-17F and IL-17A exist as a homodimers, adopting a cysteine knot motif formed through the interactions of four cysteines, one of which is responsible for the interchain bonding. IL-17F and IL-17A can form both homodimeric and heterodimeric proteins when expressed in a recombinant system and all forms of the recombinant proteins have in vitro functional activity. In addition, activated human CD4-T cells produce the homodimers of IL-17F, IL-17A, and the IL-17F/IL-17A heterodimer.

- Antigen References: 1. Chang SH, et al. Cell Res 17:435-440 2007.
- Unang Sci, et al. Jell New Tr.453-440 2007.
 Liang SC, et al. Jl 179:7791-7799 2007.
 Wright JF, et al. J. Biol. Chem. 282:13447-13455 2007.
 Wright JF, et al. J. Immunol. 181:2799-2805 2008.

 - 5. Fouser LA, et al. Immunol. Rev. 226:87-102 2008.





*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.