

Product Data Sheet

Recombinant Human IL-17F (carrier-free)

Catalog # / Size:	570606 / 100 µg	لمر	
Source:	Human IL-17F, amino acids Arg31-Gln163 (Accession # AF384857) was expressed in <i>E. coli.</i>	E 12-	
Molecular Mass:	The 133 amino acid recombinant protein has a predicted molecular mass of 14903.1 Da. This protein exists as a disulfide-linked homodimer. The DTT-reduced protein migrates at approximately 15kDa by SDS-PAGE. The non-reduced protein migrates as a homodimer, at approximately 30kDa by SDS-PAGE.		
Purity:	>98%, as determined by Coomassie stained SDS-PAGE.	ngimi	
Endotoxin Level:	Less than 0.01ng per μg cytokine as determined by the LAL method.	CXCL1 induction in human fibroblast	
Activity:	ED50 =400 - 800 ng/ml, corresponding to a specific activity of 2.5 $\hat{a} \in 1.25 \times 10^3$ units/mg, as determined by the dose dependent stimulation of CXCL1 production in human fibroblast.	by human IL-17F	
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 PBS		
Storage:	Unopened vial can be stored at 4°C for three months, at -20°C for six months, results, quick spin vial prior to opening. Stock solutions should be prepared at containing carrier protein such as 1% BSA or HSA or 10% FBS. For long term vials and store in a manual defrost freezer. Avoid repeated freeze/thaw cycl	, or at -70°C for one year. For maximum no less than 10 μg/mL in buffer storage, aliquot into polypropylene les.	

Applications:

Applications: Bioassay

Description: IL-17F belongs to the IL-17 cytokine family which includes IL-17A, B, C, D, and E (also called IL-25). IL-17F shares the strongest homology to IL-17A. They share 50% amino acid sequence homology. The genes encoding IL-17 and IL-17F are localized in the same chromosomal region and are co-expressed by CD4+ and gamma delta T cells. Recently, an IL-17& and sh;IL-17F heterodimer was found to be expressed in Th17 cells together with IL-17 and IL-17F homodimers. Similar to IL-17, IL-17F utilizes IL-17RA and IL-17RC as its receptor and employs Act1 and TRAF6 as its signal transducers to induce the expression of pro-inflammatory cytokines and chemokines in many different cell types. IL-17F expression is upregulated in inflammatory bowel disease. A His161 to Arg161 (H161R) substitution in the third exon of the IL17F gene seems to be associated with asthma and chronic obstructive pulmonary disease (COPD) in Japanese subjects. In addition polymorphism of IL-17F seems to be associated to susceptibility to gastric cancer.

Antigen References:	1. Starnes T, et al. 2001 J. Immunol. 167	':4137.
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- 3. Hizawa N, et al. 2006 Clin Experimental Allergy 36:1109.
- 4. Seiderer J, et al. 2008 Inflamm Bowel Dis 14:437.
- 5. Wu X, et al. 2009 Int J Cancer PMID:19904747.





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