Datasheet for ABIN2667474

IL-17A/F Protein (Heterodimer)

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Overview

Quantity:	10 µg
Target:	IL-17A/F
Protein Characteristics:	Heterodimer
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Application:	Cytometry by Time of Flight (CyTOF), Flow Cytometry (FACS)

Product Details

Purity:	Purity is >98 % , as determined by Coomassie stained SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Endotoxin level is < 0.1 EU/µg (< 0.01 ng/µg) protein as determined by the LAL method.

Target Details

Target:	IL-17A/F
Alternative Name:	IL-17A/F (IL-17A/F Products)
Background:	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

Target Details

	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.
Molecular Weight:	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

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	Biological 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 104 units/mg.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Reconstitution:	For maximum results, quick spin vial prior to opening. The protein can be aliquoted and stored from -20 °C to -70 °C. Stock solutions can also be prepared at 50-100 µg/mL in sterile buffer (PBS, HPBS, DPBS, or EBSS) containing carrier protein such as 0.2-1 % BSA or HSA and stored in working aliquots at -20 °C to -70 °C.
Buffer:	0.22 µm filtered protein solution is in 10 mM NaH2PO4, 300 mM NaCl, pH 7.2.
Handling Advice:	Avoid repeated freeze/thaw cycles.
Storage:	-20 °C
Storage Comment:	Unopened vial can be stored between 2°C and 8°C for one month, at -20°C for six months, or at -70°C for one year.