Datasheet for ABIN6700929

IL-17A/F Protein

2 Images

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Overview

Quantity:	25 µg
Target:	IL-17A/F
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	SDS-PAGE (SDS)

Product Details

Purpose:	Human Interleukin-17AF Heterodimer Recombinant Protein
Purification:	Interleukin-17AF Heterodimer purity was determined to be greater than 98% as determined by analysis by UV-Spectroscopy at 280nm and by reducing and non-reducing SDS-pAGE.
Purity:	98,00%
Endotoxin Level:	Measured by LAL is typically ≤ 1 EU/µg protein.
Biological Activity Comment:	The activity is determined by a dose-dependent production of IL-6 in cultured mouse NIH 3T3 fibroblasts and is typically 3-15 ng/mL.

Target Details

Target:	IL-17A/F
Alternative Name:	IL17A/IL17F (IL-17A/F Products)
Background:	Synonyms: IL17 heterodimer, IL17AF heterodimer, CTLA-8 ML-1 dimer, Interleukin 17AF, Interleukin-17AF heterodimer

Target Details

	Background: Interleukin-17AF (IL-17AF) is a member of the IL-17 family of proteins produced by a subset of T cells, called Th17, following stimulation with IL-23. Since IL-17AF is thought to signal through the IL-17RA receptor, its biological function is similar to that of IL-17A in that it induces the production of a variety of chemokines, in addition to airway neutrophilia. In regard to these functions, IL-17AF has less activity than the IL-17A homodimer but, greater activity than the IL-17F homodimer. Human and rat IL-17AF both show activity on mouse cells. Recombinant human IL-17AF is a non-glycosylated heterodimer, containing one IL-17A subunit and one IL-17F subunit. The dimer has a total of 271 amino acids, with an approximate molecular weight of 30.7 kDa.
UniProt:	Q16552

Application Details

Application Notes:	Other: User Optimized Application_Note: Interleukin-17AF Heterodimer Recombinant Protein has been tested by SDS-PAGE and biological activity and is suitable as a control for polyclonal or monoclonal anti-Interleukin-17AF Heterodimer in immunological assays.
Comment:	Suggested_Applications: Cellular Assay Other_Performance_Data:
Restrictions:	For Research Use only

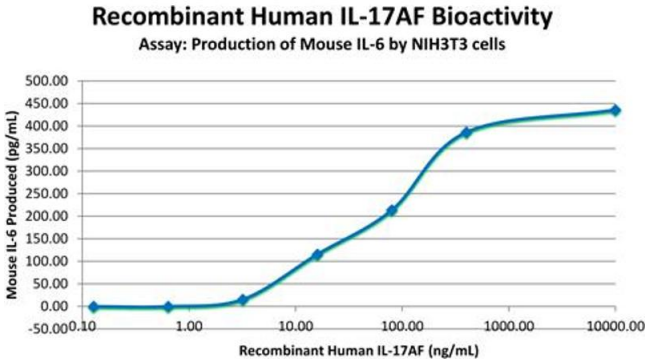
Handling

Format:	Lyophilized
Reconstitution:	Reconstitution_Buffer: Restore with deionized water (or equivalent) Reconstitution_Volume: 25 µL (25-250 µL)
Buffer:	Buffer: 0.1 % Trifluoroacetic acid Stabilizer: None
Preservative:	Without preservative
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at 4° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each

Handling

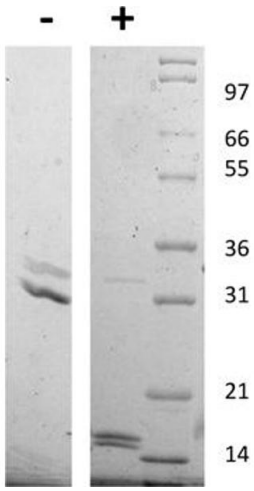
	opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature.
Expiry Date:	6 months

Images



SDS-PAGE

Image 1. SDS-PAGE of Human Interleukin-17AF Heterodimer Recombinant Protein Bioactivity of Human Interleukin-17 Animal Free Heterodimer Recombinant Protein. Serial dilutions of Human IL-17 AF(starting at 1 ug/mL) were added to NIH 3T3 cells. After 48 hours, production of mouse IL-6 was measured and the linear portion of the curve was us used to calculate the ED50. The ED50 of Human IL-17 AF is between 2.6-3.8 ng/mL. This value is comparable to the typical expected range of 3-15 ng/mL.



SDS-PAGE

Image 2. SDS-PAGE of Human Interleukin-17AF Heterodimer Recombinant Protein SDS-PAGE of Human Interleukin-17 Animal Free Recombinant Protein. Lane 1: 1 µg Human IL-17 AF in non-reducing conditions . Lane 2: 1 µg Human IL-17 AF in reducing conditions (+). Lane 3: Molecular weight marker. Human IL-17 AF is a heterodimer with a predicted total MW of 30.7 kDa.