Datasheet for ABIN6700051

Interleukin 17a Protein

1 Image

Go to Product page

Overview

Quantity:	25 µg
Target:	Interleukin 17a (IL17A)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	SDS-PAGE (SDS)

Product Details

Purpose:	IL-17A Human Recombinant Protein
Purification:	Recombinant protein corresponds to amino acids 19 - 155 of mature human IL-17A. Its molecular weight is 15,667 Daltons. Purity is greater than 90% as determined by reducing and non-reducing SDS-PAGE and by analytical HPLC.
Purity:	90,00%
Endotoxin Level:	Measured by LAL is < 0.01 ng/µg or < 0.1 EU/µg protein.
Biological Activity Comment:	Human IL-17A is fully biologically active when compared to standards via dose-dependent induction of IL-6 production in cultured mouse NIH 3T3 fibroblasts. The ED50 for recombinant human IL-17A in this assay was 1.4-2.1 ng/mL.

Target Details

Target:	Interleukin 17a (IL17A)
Alternative Name:	IL17A (IL17A Products)

Target Details

Background:	Synonyms: Interleukin-17 cytokine, IL-17, IL-17A, Interleukin-17A, Cytotoxic T-Lymphocyte-associated Antigen 8, CTLA8. Background: Interleukin17-A is a proinflammatory cytokine produced by activated T cells and exists as a homodimer. This cytokine regulates the activities of NF-kappaB and mitogen-activated protein kinases. IL-17A can stimulate the expression of IL6 and cyclooxygenase-2 (PTGS2/COX-2), as well as enhance the production of nitric oxide (NO). High levels of this cytokine are associated with several chronic inflammatory diseases including rheumatoid arthritis, psoriasis and multiple sclerosis. IL17-A is the founding member of a group of cytokines called the IL-17 family. IL17-A was originally identified as a transcript from a rodent T-cell hybridoma. To elicit its functions, IL17 binds to a type I cell surface receptor called IL17R of which there are at least three variants: IL17RA, IL17RB, and IL17RC.
UniProt:	Q16552

Application Details

Application Notes:	Other: User Optimized Application_Note: IL-17A protein has been tested by SDS-PAGE and is suitable as a control for polyclonal or monoclonal anti-IL-17A in immunological assays.
Restrictions:	For Research Use only

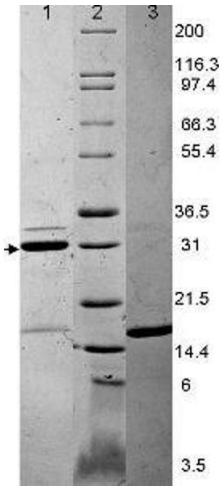
Handling

Format:	Lyophilized
Reconstitution:	Reconstitution_Buffer: Restore with deionized water (or equivalent) Reconstitution_Volume: 250 µL
Concentration:	0.1 mg/mL
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. IL-17A Human Recombinant Protein - SDS-PAGE. SDS-PAGE using Recombinant Human IL-17A protein shows bands corresponding to IL-17A (1µg) in lane 1 (unreduced) and lane 3 (reduced). Molecular weight estimation was made by comparison to prestained MW markers, lane 2.