

Synonym

IL-17A,Interleukin-17A,CTLA-8,IL-17

Source

Human IL17A, Tag Free (ILA-H5118) is expressed from E.coli cells. It contains AA Gly 24 - Ala 155 (Accession # [Q16552](#)).
Predicted N-terminus: Met

Molecular Characterization

IL-17A(Gly 24 - Ala 155)
Q16552

This protein carries no "tag".
The protein has a calculated MW of 15.3 kDa. the protein migrates as 16 kDa under reducing (R) condition, and 28-30 kDa under non-reducing (NR) condition (SDS-PAGE).

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>95% as determined by SDS-PAGE.
>95% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.
Contact us for customized product form or formulation.

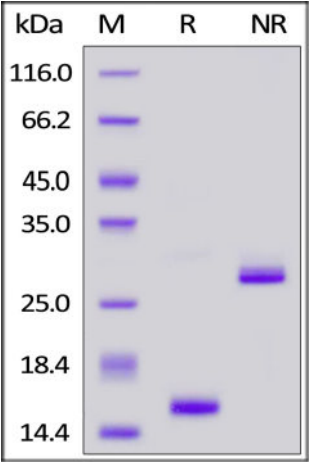
Reconstitution

Please see Certificate of Analysis for specific instructions.
For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

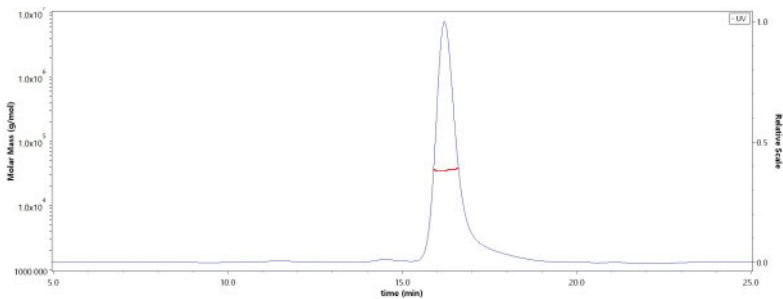
For long term storage, the product should be stored at lyophilized state at -20°C or lower.
Please avoid repeated freeze-thaw cycles.
This product is stable after storage at:
• -20°C to -70°C for 12 months in lyophilized state;
• -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



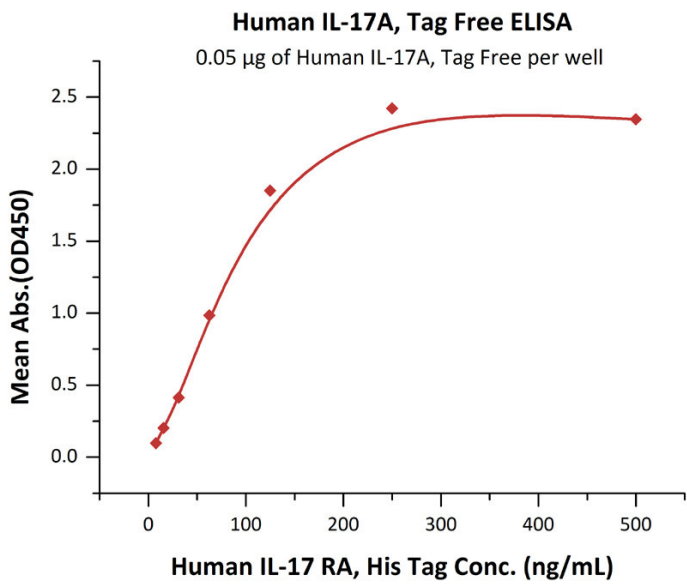
Human IL17A, Tag Free on SDS-PAGE under reducing (R) and non-reducing (NR) conditions. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

SEC-MALS

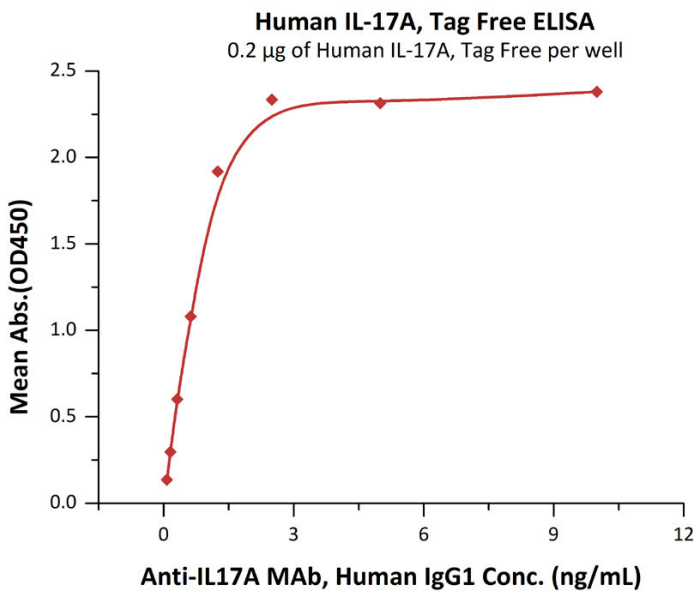


The purity of Human IL17A, Tag Free (Cat. No. ILA-H5118) was more than 95% and the molecular weight of this protein is around 30-40 kDa verified by SEC-MALS.
[Report](#)

Bioactivity-ELISA

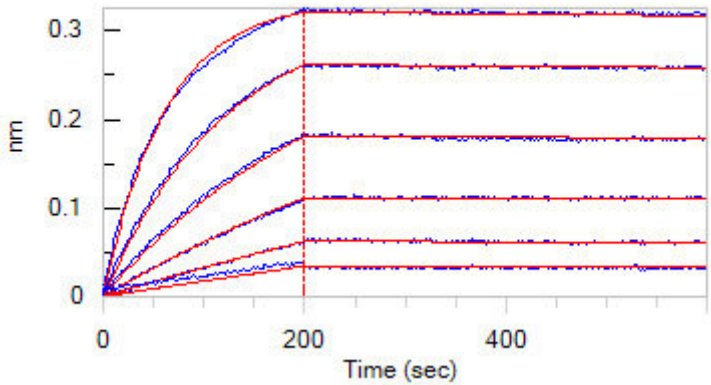


Immobilized Human IL-17A, Tag Free (Cat. No. [ILA-H5118](#)) at 0.5 µg/mL (100 µL/well) can bind Human IL-17 RA, His Tag (Cat. No. [ILA-H5222](#)) with a linear range of 8-125 ng/mL (QC tested).

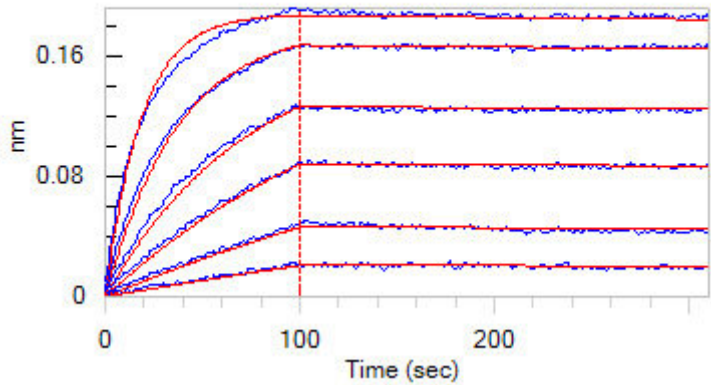


Immobilized Human IL-17A, Tag Free (Cat. No. [ILA-H5118](#)) at 2 µg/mL (100 µL/well) can bind Anti-IL17A MAb, Human IgG1 with a linear range of 0.08-1 ng/mL (Routinely tested).

Bioactivity-BLI



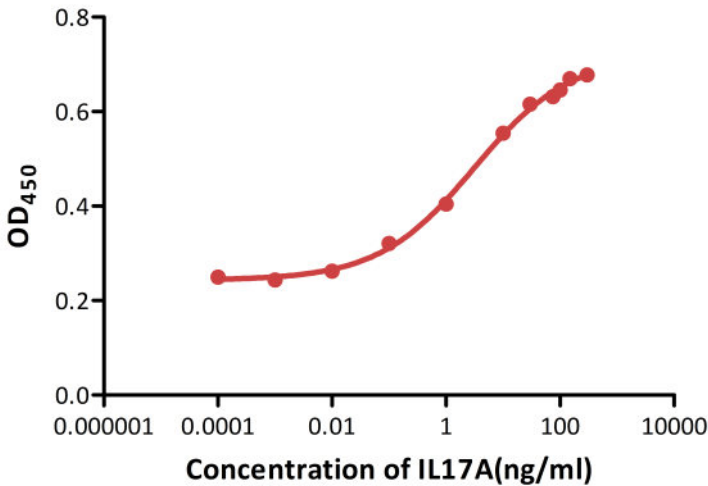
Loaded Human IL-17 RA, Fc Tag (Cat. No. [ILA-H5257](#)) on Protein A Biosensor, can bind Human IL17A, Tag Free (Cat. No. [ILA-H5118](#)) with an affinity constant of 0.21 nM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).



Loaded Human IL17RA & IL17RC Protein, Fc Tag&Fc Tag (Cat. No. [ILC-H5257](#)) on Protein A Biosensor, can bind Human IL17A, Tag Free (Cat. No. [ILA-H5118](#)) with an affinity constant of 0.13 nM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).

Bioactivity-Cell based assay

IL-17A stimulates production of IL-6 in NIH-3T3 cells



Human IL17/ IL17A Protein, Free Tag(Cat. No. [ILA-H5118](#)) stimulates secretion of IL-6 by NIH-3T3 cells. The ED50 for this effect is 1.444-6.941 ng/ml.

Background

Interleukin-17A (IL17A) is also known as cytotoxic T-lymphocyte-associated antigen 8 (CTLA8), which is a proinflammatory cytokine produced by activated T cells. IL17A can regulate the activities of NF-kappaB and mitogen-activated protein kinases. Also, IL17A can stimulate the expression of IL6 and cyclooxygenase-2 (PTGS2/COX-2), as well as enhance the production of nitric oxide (NO). Furthermore, IL17A has been found both in glycosylated and nonglycosylated forms. High levels of IL-17 are associated with several chronic inflammatory diseases including rheumatoid arthritis, psoriasis and multiple sclerosis.

References

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.