

Biotinylated Human TACI / TNFRSF13B Protein, His,Avitag™ (MALS verified)

Catalog # TAI-H82E3



BIOSYSTEMS
Acro

Synonym

CD267, TACI, TNFRSF13B

Source

Biotinylated Human TACI Protein, His,Avitag (TAI-H82E3) is expressed from human 293 cells (HEK293). It contains AA Ser 2 - Thr 166 (Accession # [O14836-1](#)).

Molecular Characterization

TACI(Ser 2 - Thr 166)
O14836-1

Poly-his

Avi

This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 22.2 kDa. The protein migrates as 22-25 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Labeling

Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.

Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

Purity

>90% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, 0.2 M Arginine, pH7.4 with trehalose as protectant.

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.

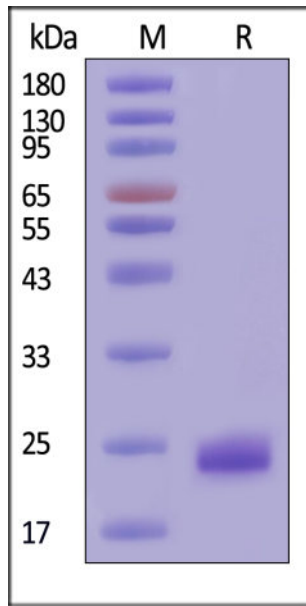
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

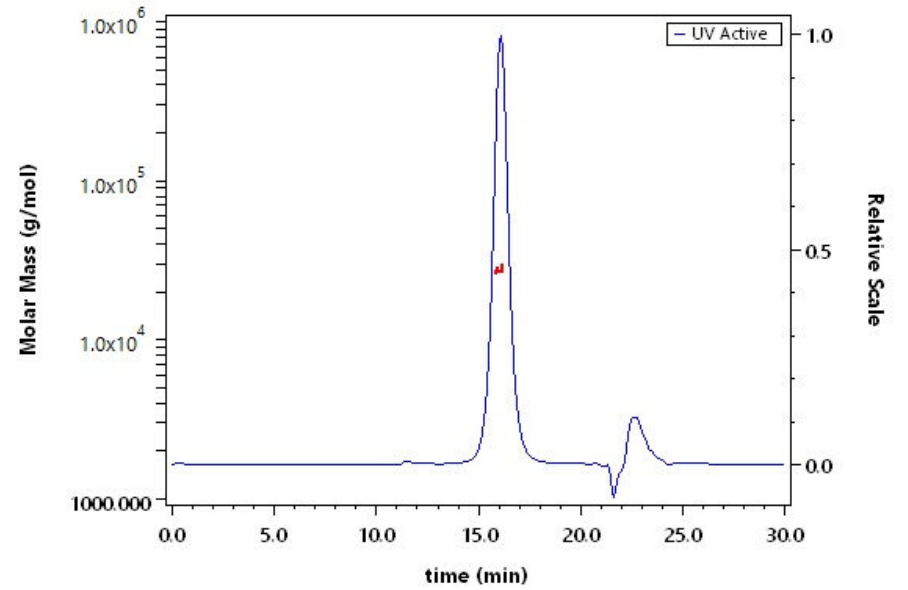
- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



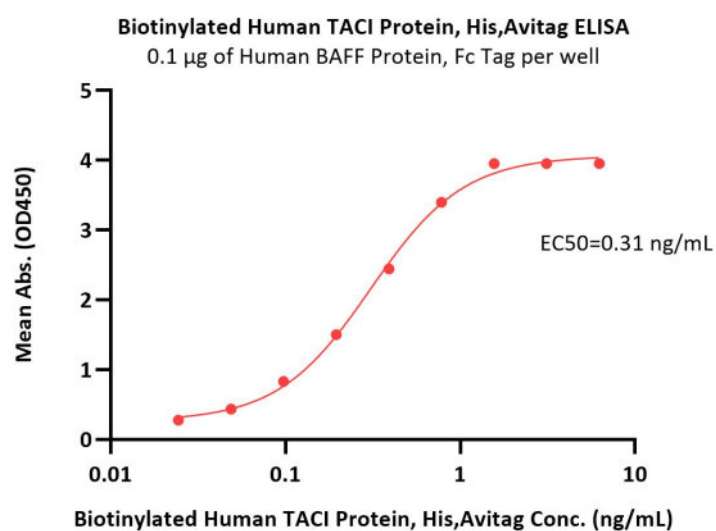
Biotinylated Human TACI Protein, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS

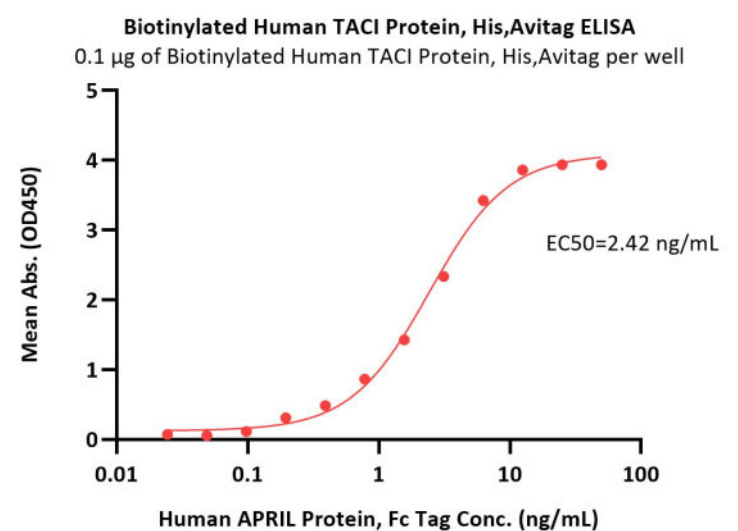


The purity of Biotinylated Human TACI Protein, His,Avitag (Cat. No. TAI-H82E3) is more than 95% and the molecular weight of this protein is around 22-30 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Human BAFF Protein, Fc Tag (Cat. No. BAF-H5261) at 1 µg/mL (100 µL/well) can bind Biotinylated Human TACI Protein, His,Avitag (Cat. No. TAI-H82E3) with a linear range of 0.02-1 ng/mL (QC tested).



Immobilized Biotinylated Human TACI Protein, His,Avitag (Cat. No. TAI-H82E3) at 1 µg/mL (100 µL/well) on streptavidin (Cat. No. STN-N5116) pre-coated (0.5 µg/well) plate can bind Human APRIL Protein, Fc Tag (Cat. No. APL-H5363) with a linear range of 0.02-6 ng/mL (Routinely tested).

Background

Transmembrane activator and CAML interactor (TACI), also known as tumor necrosis factor receptor superfamily member 13B (TNFRSF13B). It was originally discovered because of its ability to interact with calcium-modulator and cyclophilin ligand (CAML). TACI was later found to play a crucial role in humoral immunity by interacting with two members of the TNF family: BAFF and APRIL.

The present study demonstrated that, in NSCLC, a proliferation-inducing ligand (APRIL), B-cell maturation antigen (BCMA) and transmembrane activator and CAML interactor (TACI) proteins are abnormally expressed by immunohistochemistry, reverse transcription-quantitative polymerase chain reaction and western blotting. In addition, the expression of APRIL, BCMA and TACI were observed to be involved in extracellular signal-regulated kinase (ERK)1/2 activation in A549 cells.

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