

**Synonym**

TACSTD2,GA733-1,M1S1,TROP2

**Source**

Biotinylated Human TROP-2 Protein, Fc,Avitag(TR2-H82F4) is expressed from human 293 cells (HEK293). It contains AA Gln 31 - Thr 274 (Accession # [P09758-1](#)).

Predicted N-terminus: Gln 31

**Molecular Characterization**

|                                      |                                 |     |
|--------------------------------------|---------------------------------|-----|
| TROP-2(Gln 31 - Thr 274)<br>P09758-1 | Fc(Pro 100 - Lys 330)<br>P01857 | Avi |
|--------------------------------------|---------------------------------|-----|

This protein carries a human IgG1 Fc tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 55.6 kDa. The protein migrates as 66-80 kDa 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.

**Endotoxin**

Less than 1.0 EU per µg by the LAL method.

**Purity**

&gt;90% as determined by SDS-PAGE.

**Formulation**

Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM NaCl, pH7.5 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.*

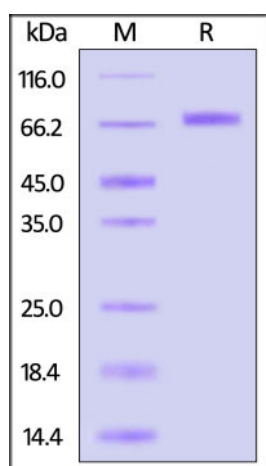
**Storage**

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

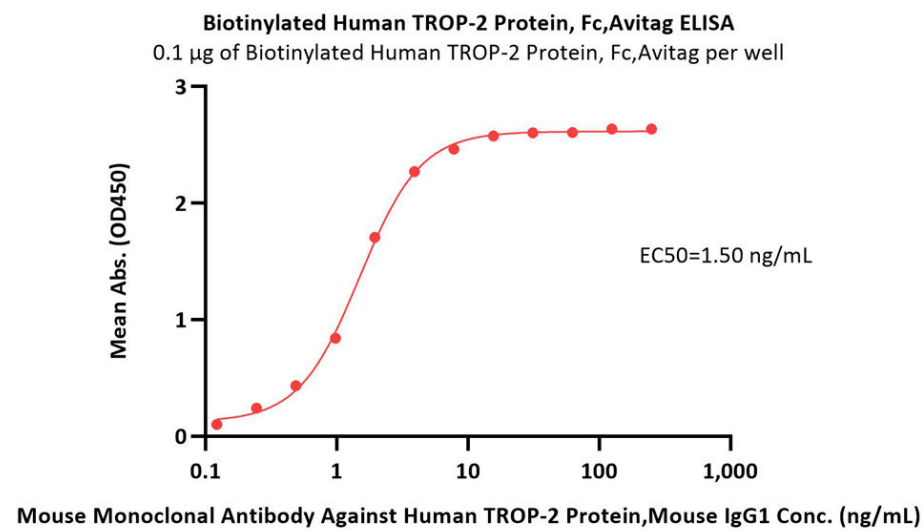
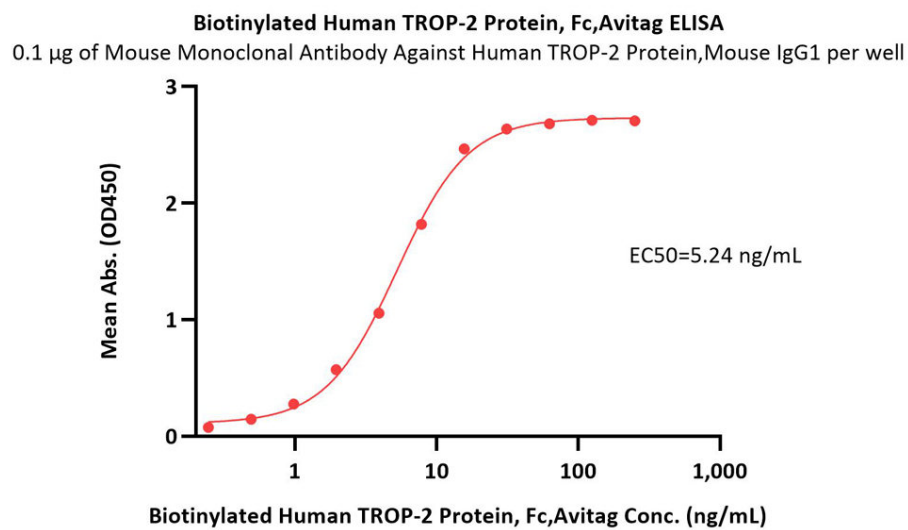
This product is stable after storage at:

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

**SDS-PAGE**

Biotinylated Human TROP-2 Protein, Fc,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

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Immobilized Mouse Monoclonal Antibody Against Human TROP-2 Protein, Mouse IgG1 at 1 µg/mL (100 µL/well) can bind Biotinylated Human TROP-2 Protein, Fc,Avitag (Cat. No. TR2-H82F4) with a linear range of 0.2-16 ng/mL (QC tested).

Immobilized Biotinylated Human TROP-2 Protein, Fc,Avitag (Cat. No. TR2-H82F4) at 1 µg/mL (100 µL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 µg/well) plate can bind Mouse Monoclonal Antibody Against Human TROP-2 Protein, Mouse IgG1 with a linear range of 0.1-4 ng/mL (Routinely tested).

**Background**

TROP-2 is a single-copy gene in human cells, and encodes a type-1 transmembrane glycoprotein which is over-expressed in various malignancies, also referred to as tumor associated calcium signal transducer 2 (TACSTD2), GA733-1 or MIS1. TROP-2 is related to epithelial cell adhesion molecule (EpCAM), also called TROP-1, gp40, and KSA. Trop-1 and Trop-2 are homologous to serum IGF-II-binding proteins and appear as signal transducers. Thus, they likely represent novel cell-surface receptors and may play a role in regulating the growth of carcinoma cells.

**Clinical and Translational Updates**

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.

