

**Synonym**

TACSTD2,GA733-1,M1S1,TROP2

**Source**

Rabbit TROP-2, His Tag(TR2-R52H9) is expressed from human 293 cells (HEK293). It contains AA Gln 35 - Pro 279 (Accession # [G1T6B6-1](#) ).

Predicted N-terminus: Gln 35

**Molecular Characterization**

TROP-2(Gln 35 - Pro 279)  
G1T6B6-1 Poly-his

This protein carries a polyhistidine tag at the C-terminus

The protein has a calculated MW of 29.5 kDa. The protein migrates as 40-50 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 1.0 EU per µg by the LAL method.

**Purity**

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

**Formulation**

Lyophilized from 0.22 µm filtered solution in PBS, 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.*

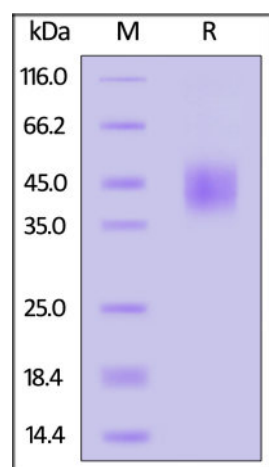
**Storage**

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

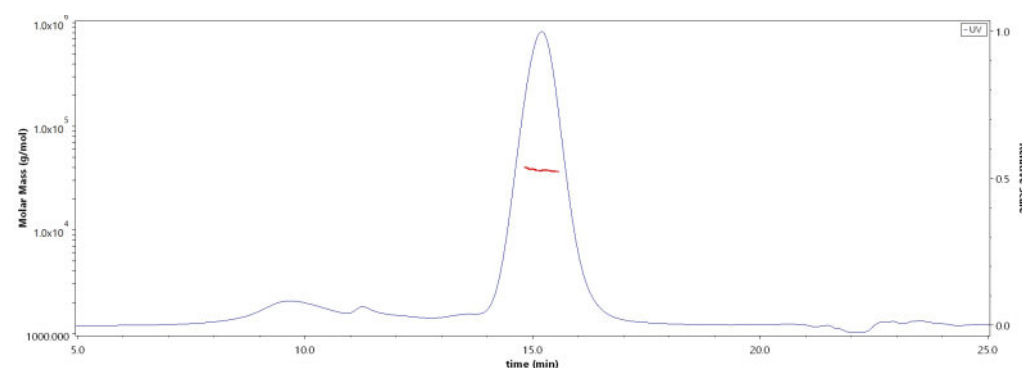
*Please avoid repeated freeze-thaw cycles.*

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.

**SDS-PAGE**

Rabbit TROP-2, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

**SEC-MALS**

The purity of Rabbit TROP-2, His Tag (Cat. No. TR2-R52H9) is more than 90% and the molecular weight of this protein is around 32-42 kDa verified by SEC-MALS.

[Report](#)

**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 M1S1. 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.