

## TROP-2 Protein, Human, Recombinant (Avi & His), Biotinylated

### General Information

Synonyms:	TACSTD2;Cell surface glycoprotein Trop-2;Membrane component chromosome 1 surface marker 1;TROP2;Tumor-associated calcium signal transducer 2
Protein Construction:	His27-Thr274
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P09758
Molecular Weight:	40-60 KDa (reducing condition)
AA Sequence:	His27-Thr274

### QC Testing

Biological Activity:	<ol style="list-style-type: none"><li>1. Loaded Anti-Human TROP-2 mAb-Fc on Protein A Biosensor, can bind Biotinylated Human TROP-2-Avi-His with an affinity constant of 0.49 nM as determined in BLI assay. (Regularly tested)</li><li>2. Immobilized Biotinylated Human TROP-2-Avi-His at 1µg/ml (100 µl/well) can bind Anti-Human TROP-2 mAb. The ED50 of Anti-Human TROP-2 mAb is 4.19 ng/ml. (Regularly tested)</li></ol>
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/µg (1 EU/µg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS, pH 7.4.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Tumor associated calcium signal transducer 2 (TACSTD2, TROP-2) is a type I cell surface glycoprotein that is highly expressed on human carcinomas. It was originally identified as an antigen present on human gastrointestinal

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tumors and is the second of two members of this family. Human and mouse TROP-2 share 87% amino acid (aa) similarity. TROP-2 is capable of transducing an intracellular calcium signal and may play a role in tumor growth. It also has adhesive functions.

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