

## Recombinant Rat TACSTD2 Protein (Met1-Gly270), His-tagged

Cat. No. TACSTD2-971R Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Rat TACSTD2 Protein (NP\_001009540.2) (Met1-Gly270) was produced by HEK293 Cells expression system. This protein was expressed with a polyhistidine tag at the C-terminus.

**Species** Rat

**Source** HEK293

**ProteinLength** Met1-Gly270

### Description

TROP-2, also referred to as tumor associated calcium signal transducer 2 (TACSTD2), GA733-1 or M1S1, is a cell surface glycoprotein highly expressed in a wide variety of epithelial cancers. In contrast, there is little or no expression of Trop-2 in adult somatic tissue. Because it is a cell surface protein that is selectively expressed in tumor cells, Trop-2 is a potential therapeutic target. The cytoplasmic tail of Trop-2 possesses potential serine and tyrosine phosphorylation sites and a phosphatidyl-inositol binding consensus sequence. Trop-2 transduces an intracellular calcium signal, are consistent with the hypothesis that it acts as a cell surface receptor and support a search for a physiological ligand. TROP2 encoding by an intronless gene was originally defined by the monoclonal antibody GA733, and is a member of a family of at least two type I membrane proteins. The other known member is GA733-2, also called EpCAM and TROP1. It has been suggested by studies that the GA733-1 gene was formed by the retroposition of the GA733-2 gene via an mRNA intermediate.

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<b>Predicted N Terminal</b>	Gln 20
<b>Form</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
<b>Molecular Mass</b>	The recombinant rat TACSTD2 consists of 257 amino acids and predicts a molecular mass of 29.5 kDa.
<b>Endotoxin</b>	< 1.0 EU per µg protein as determined by the LAL method.
<b>Purity</b>	> 90 % as determined by SDS-PAGE.
<b>Stability</b>	Samples are stable for up to twelve months from date of receipt at -70 centigrade.
<b>Storage</b>	Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.
<b>Shipping</b>	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

## GENE INFORMATION

<b>Gene Name</b>	Tacstd2 tumor-associated calcium signal transducer 2 [ <i>Rattus norvegicus</i> ]
<b>Official Symbol</b>	TACSTD2

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<b>Synonyms</b>	TACSTD2; tumor-associated calcium signal transducer 2; parturition-related protein 1; Prp1; MGC72570;
<b>Gene ID</b>	<a href="#">494343</a>
<b>mRNA Refseq</b>	<a href="#">NM_001009540</a>
<b>Protein Refseq</b>	<a href="#">NP_001009540</a>
<b>UniProt ID</b>	<a href="#">Q6P9Z6</a>

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