

Active Recombinant Human TACSTD2 Protein (Met1-Thr274), AVI-Fc-tagged

Cat. No. TACSTD2-1140H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TACSTD2 Protein (NP_002344.2) (Met1-Thr274) was produced by HEK293 Cells expression system. This protein was expressed with a c-terminal Fc region of human IgG1 tagged AVI tag at the C-terminus.
Species	Human
Source	HEK293
ProteinLength	Met1-Thr274
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

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	via an mRNA intermediate.
Predicted N Terminal	His 27
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Bio-activity	Measured by the ability of the immobilized protein to support the adhesion of U937 human histiocytic lymphoma cells. When 5×10^4 cells/well are added to TACSTD2-Fc-Avi coated plates (5 µg/mL with 100 µL/well), approximately >45% cells will adhere after 1 hour incubation at 37 centigrade.
Molecular Mass	The recombinant human TACSTD2 consists of 501 amino acids and predicts a molecular mass of 56.4 kDa.
Endotoxin	< 1.0 EU per µg protein as determined by the LAL method.
Purity	> 95 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70 centigrade.
Storage	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.
Reconstitution	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.
Shipping	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

Gene Name	TACSTD2 tumor-associated calcium signal transducer 2 [Homo sapiens]
Official Symbol	TACSTD2
Synonyms	TACSTD2; M1S1; EGP 1; GA733 1; TROP2; EGP1; GP50; EGP-1; GA7331; GA733-1;
Gene ID	4070
mRNA Refseq	NM_002353
Protein Refseq	NP_002344
MIM	137290
UniProt ID	P09758

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