

# Recombinant Human EPCAM protein, His-tagged

**Cat. No.** EPCAM-72H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant human TACSTD1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
<b>Description</b>	TACSTD1, also known as tumor-associated calcium signal transducer 1, is a membrane glycoprotein expressed on adenomatous and simple epithelia, where it is involved in homophilic adhesion at the basolateral membrane. It may act as a physical homophilic interaction molecule between intestinal epithelial cells (IECs) and intraepithelial lymphocytes (IELs) at the mucosal epithelium for providing immunological barrier as a first line of defense against mucosal infection. It plays a role in embryonic stem cells proliferation and differentiation.
<b>Source</b>	Insect cell
<b>Species</b>	Human
<b>Tag</b>	His
<b>Form</b>	Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.
<b>Molecular Mass</b>	28.2kDa (248aa)28-40kDa (SDS-PAGE under reducing conditions)
<b>AA Sequence</b>	QEEVCVCEYK LAVNCFVNNN RQCQCTSVGA QNTVICSKLA AKCLVMKAEM NGSKLGRRRAK PEGALQNNNDG LYDPDCDESG LFKAKQCNGTSTCWCVNTAG VRRTDKDTEI TCSEVRRTYW IIIELKHKAR EKPYSKSLR TALQKEITTR YQLDPKFITS ILYENNVITI DLVQNSSQKTQNDVDIADVA YYFEKDVKGE

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SLFHSSKMDL TVNGEQLDLD PGQTLIYYVD EKAPEFSMQG LKHHHHHH

**Endotoxin** < 1.0 EU per 1 microgram of protein (determined by LAL method)

**Purity** >95% by SDS – PAGE

**Storage** Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.

**Concentration** 1mg/ml (determined by Absorbance at 280nm)

## GENE INFORMATION

**Gene Name** EPCAM epithelial cell adhesion molecule [ Homo sapiens ]


**Official Symbol** EPCAM

**Synonyms** ESA; KSA; M4S1; MK-1; DIAR5; EGP-2; EGP40; KS1/4; MIC18; TROP1; EGP314; HNPCC8; TACSTD1; adenocarcinoma-associated antigen; cell surface glycoprotein Trop-1; epithelial glycoprotein 314; human epithelial glycoprotein-2; major gastrointestinal tumor-associated protein GA733-2; membrane component, chromosome 4, surface marker (35kD glycoprotein); tumor-associated calcium signal transducer 1

**Gene ID** 4072

**mRNA Refseq** NM\_002354


**Protein Refseq** NP\_002345

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<b>MIM</b>	185535
<b>UniProt ID</b>	P16422
<b>Chromosome Location</b>	2p21
<b>Function</b>	cadherin binding involved in cell-cell adhesion; protein binding; protein complex binding

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