

**Tumor-associated calcium signal transducer 1, 24-265aa, Human, His tag, Insect cell**

**Cat.NO.: TP04351**

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3th Edition

**Synonyms:**TACSTD1, CD326, CO17-1A, EGP, EGP40, Ep-CAM, GA733-2, hEGP-2, KSA, M4S1, MIC18, MK-1, TROP1

**Description:**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. Recombinant human TACSTD1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

**Form:**Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.

**Molecular Weight:**28.2kDa (248aa) 28-40kDa (SDS-PAGE under reducing conditions)

**Sequences:**

QEECVENYKLAVNCFVNNNRQCQCTSVGAQNTVICSKLAAKCLVMKAEMNGSKLGRRAKPEGALQNNNDGLYDP  
DCDESGLFKAKQCNGTSTCWCVNNTAGVRRRTDKDTEITCSERVRTYWIIELKHKAREKPYDSKSLRTALQKEITTRY  
QLDPKFITSILYENNVITIDLQNSSQKTQNDVDIADVAYYFEKDVKGESLFHSSKMDLTVNGEQLDLDPGQTLIYYV  
DEKAPEFSMQGLKHHHHHH

**Purity:**> 95% by HPLC

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

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

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