

## Product datasheet for **TP305678M**

### Stromal interaction molecule 1 (STIM1) (NM\_003156) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins  
**Description:** Recombinant protein of human stromal interaction molecule 1 (STIM1), 100 µg  
**Species:** Human  
**Expression Host:** HEK293T  
**Expression cDNA Clone or AA Sequence:** >RC205678 representing NM\_003156  
**Red**=Cloning site **Green**=Tags(s)

MDVCVRLALWLLWGLLLHQGQSLSHSHSEKATGTSSGANSEESTAAEF CRIDKPLCHSEDEKLSFEAVRN  
IHKLMDDDANGDVDVEESDEF LREDLNYHDPTVKHSTFHGEDKLISVEDLWKAWKSSEVYNWTVDEVVQW  
LITYVELPQYEETFRKLQLSGHAMPRLAVTNTTMTGTVLKMTDRSHRQLQLKALD TVLFGPPLLRHNNH  
LKDFMLVVSIVIGVGGCWFAYIQNRYSKEHMKMMKDLEGLHRAEQSLHDLQERLHKAQEEHRTVEVEKV  
HLEKKLRDEINLAKQEAQRLKELREGTENERSRQKYAEEEELEQVREALRKAKEKELSHSSWYAPEALQKW  
LQLTHEVEVQYNNIKKQNAEKQLLVAKEGAEEKIKKRNTLFGTFHVAHSSSLDDVDHKILTAKQALSEVT  
AALRERLHRWQIEILCGFQIVNNPGIHSVAALNIDPSWGMSTRPNPAHFIMTDDVDDMDEEIVSPLSM  
QSPSLQSSVRQLTEPQHGLGSQRDLTHSDSESSLHMSDRQRVAPKPPQMSRAADEALNAMTSNGSHRLI  
EGVHPGSLVEKLPD SPALAKKALLALNHGLDKAHSMLSPSAPPGGSPHLDSSRSHPSPSPDPDTPSPV  
GDSRALQASRNTRIPHLAGKKAVAEEDNGSIGEETDSSPGRKKFPLKIFKKPLKK

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

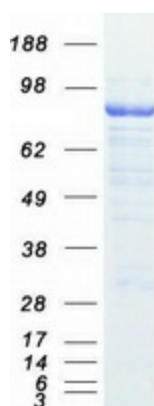
**Tag:** C-Myc/DDK  
**Predicted MW:** 74.8 kDa  
**Concentration:** >0.05 µg/µL as determined by microplate BCA method  
**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining  
**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol  
**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.  
**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.  
**Storage:** Store at -80°C.



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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_003147</a>
<b>Locus ID:</b>	6786
<b>UniProt ID:</b>	<a href="#">Q13586</a>
<b>RefSeq Size:</b>	4039
<b>Cytogenetics:</b>	11p15.4
<b>RefSeq ORF:</b>	2055
<b>Synonyms:</b>	D11S4896E; GOK; IMD10; STRMK; TAM; TAM1
<b>Summary:</b>	<p>This gene encodes a type 1 transmembrane protein that mediates Ca<sup>2+</sup> influx after depletion of intracellular Ca<sup>2+</sup> stores by gating of store-operated Ca<sup>2+</sup> influx channels (SOCs). It is one of several genes located in the imprinted gene domain of 11p15.5, an important tumor-suppressor gene region. Alterations in this region have been associated with the Beckwith-Wiedemann syndrome, Wilms tumor, rhabdomyosarcoma, adrenocortical carcinoma, and lung, ovarian, and breast cancer. This gene may play a role in malignancies and disease that involve this region, as well as early hematopoiesis, by mediating attachment to stromal cells. Mutations in this gene are associated with fatal classic Kaposi sarcoma, immunodeficiency due to defects in store-operated calcium entry (SOCE) in fibroblasts, ectodermal dysplasia and tubular aggregate myopathy. This gene is oriented in a head-to-tail configuration with the ribonucleotide reductase 1 gene (RRM1), with the 3' end of this gene situated 1.6 kb from the 5' end of the RRM1 gene. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, May 2013]</p>
<b>Protein Families:</b>	Transmembrane

### Product images:



Coomassie blue staining of purified STIM1 protein (Cat# [TP305678]). The protein was produced from HEK293T cells transfected with STIM1 cDNA clone (Cat# [RC205678]) using MegaTran 2.0 (Cat# [TT210002]).