

## Product datasheet for TP305678L

### 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), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC205678 representing NM_003156 Red=Cloning site Green=Tags(s)

MDVCVRLALWLLWGLLLHQGQSLSHSHSEKATGTSSGANSEESTAAEFKRIDKPLCHSEDEKLSFEAVRN  
IHKLMDDDANGDVDVEESDEFLELDNYHDPTVKHSTFHGEDKLISVEDLWKAWKSSEVYNWTVDEVVQW  
LITYVELPQYEETFRKLQLSGHAMPRLAVTNTTMTGTVLKMTDRSHRQLQLKALDVLFGPPLLRHNNH  
LKDFMLVVSIVIGVGGCWFAYIQNRYSKEHMKMMKDLEGLHRAEQSLHDLQERLHKAQEEHRTVEVEKV  
HLEKKLRDEINLAKQEAQRLKELREGTENERSRQKYAEEEELEQVREALRKAKEKELSHSSWYAPEALQKW  
LQLTHEVEVQYNNIKKQNAEKQLLVAKEGAEEKIKKRNTLFGTFHVAHSSSLDDVDHKILTAKQALSEVT  
AALRERLHRWQIEILCGFQIVNPNPGIHSVAALNIDPSWGMGSTRPNPAHFIMTDDVDDMDEEIVSPLSM  
QSPSLQSSVRQLTEPQHGLGSQRDLTHSDSESSLHMSDRQRVAPKPPQMSRAADEALNAMTSNGSHRLI  
EGVHPGSLVEKLPDSPAALAKKALLALNHGLDKAHSMLSPSAPPGGSPHLDSSRSHPSSPDPDTPSPV  
GDSRALQASRNTRIPHLAGKKAVAEEDNGSIGEETDSSPGRKKFPLKIFKKPLKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

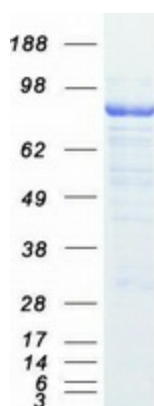
Tag:	C-Myc/DDK
Predicted MW:	74.8 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity 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]).