

Product datasheet for PH305678

Stromal interaction molecule 1 (STIM1) (NM_003156) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	STIM1 MS Standard C13 and N15-labeled recombinant protein (NP_003147)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC205678
Predicted MW:	77.42 kDa
Protein Sequence:	>RC205678 representing NM_003156 Red=Cloning site Green=Tags(s)

MDVVCVRLALWLLWGLLLHQGQSLSHSHSEKATGTSSGANSEESTAAEFRCRIDKPLCHSEDEKLSFEAVRN
IHKLMDDDANGDVVEESDEFLREDLNYHDPTVKHSTFHGEDKLI SVEDLWKAWKSSEVYNWTVDEVVQW
LITYVELPQYEETFRKLQLSGHAMPRLAVTNTTMTGTVLKMTDRSHRQKLQKALDVTLFGPPLLTRHNN
LKDFMLVVSIVIGVGGCWFAYIQNRYSEKHEMCKMMKDLEGLHRAEQSLHDLQERLHKAQEEHRTVEVEKV
HLEKKLRDEINLAKQEAQRLKELREGTENERSRQKYAEEEELEQVREALRKAKEKELSHSSWYAPEALQKW
LQLTHEVEVQYYNIKKQNAEKQLLVAKEGAEKIKKKRNTLFGTFHVAHSSSLDDVDHKILTAKQALSEVT
AALRERLHRWQQIEILCGFQIVNPNPGIHSVAALNIDPSWGMSTRPNPAHFIMTDDVDDMDEEIVSPLSM
QSPSLQSSVRQRLTEPQHGLGSQRDLTHSDSESSLHMSDRQRVAPKPPQMSRAADEALNAMTSNGSHRLI
EGVHPGSLVEKLPDSPALAKKALLALNHGLDKAHSMLMELSPSAPPGGSPHLDSSSRSHSPSPDPDTPSPV
GDSRALQASRNTRIPHLAGKKAVAEEDNGSIGEETDSSPGRKKFKPLKIFKPKLKK

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_003147
RefSeq Size:	4039



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RefSeq ORF: 2055

Synonyms: D11S4896E; GOK; IMD10; STRMK; TAM; TAM1

Locus ID: 6786

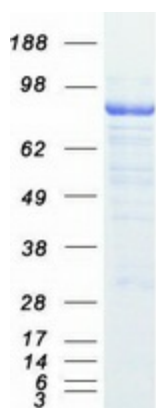
UniProt ID: [Q13586](#)

Cytogenetics: 11p15.4

Summary: This gene encodes a type 1 transmembrane protein that mediates Ca²⁺ influx after depletion of intracellular Ca²⁺ stores by gating of store-operated Ca²⁺ 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]

Protein Families: 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]).