

Recombinant Full Length Human STIM1 Protein, C-Flag-tagged

Cat. No. STIM1-1088HFL Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human STIM1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	<p>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.</p>
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.

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Molecular Mass	74.8 kDa
AA Sequence	<p>MDV CVRLALWLLWGLLLHQGQSLSHSHSEKATGTSSGANSEESTAAEF CRIDKPLC HSEDEKLSFEAVRN IHKLMDDDANGDV DVEESDEFLREDLN YHDPTVKHSTFHGED KLISVEDLWKAWKSSEVYNWTVDEVVQW LITYVELPQYEETFRKLQLSGHAMPRLA VTNTTMTGTVLKMTDRSHRQKLQKALD TVLFGPPLLTRHNH LKDFMLVVSIVIGVG GCWFAYIQNRYSKEHMKMMKDL EGLHRAEQSLHDLQERLHKAQEEHRTVEVEKV HLEKKLRDEINLAKQEAQRLKELREGT ENERSRQKYAEEEELEQVREALRKAKELES HSSWYAPEALQKW LQLTHEVEVQY YNIKKQNAEKQLLVAKEGAEKIKKKRNTLFGT FHVAHSSSLDDVDHKILTAKQAL SEVT AALRERLHRWQQIEILCGFQIVN NPGIHSLV AALNIDPSWGMGSTRPNPAHFIMTDD VDDMDEEIVSPLSM QSPSLQSSVRQRLTEPQ HGLGSQRDLTHSDSESSLHMSDRQRVAPKPPQMSRAADEALNAMTSNGSHRLI EG VHPGSLVEKLPDSPALAKKALLALNHGLDKAHS LMELSPSAPPGGSPHLDSSRSHS PSSPDPDTPSPV GDSRALQASRNTRIPHLAGKKAVAEEDNGSIGEE TDSSPGRKKFPLKIFKKPLKTRT RPLEQKLISEEDLAANDILDYKDDDDKV</p>
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Transmembrane

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Full Length Full L.

GENE INFORMATION

Gene Name STIM1 stromal interaction molecule 1 [Homo sapiens (human)]

Official Symbol STIM1

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

Gene ID 6786

mRNA Refseq NM_003156.4

Protein Refseq NP_003147.2

MIM 605921

UniProt ID Q13586

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Coomassie blue staining of purified STIM1 protein.

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