9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

STIM1 Human

Stromal Interaction Molecule 1 Human Recombinant
RCP2262

Product Overview

Name	STIM1 Human
Description	
Stromal Interaction Molecule 1 Human Recombinant	
Accession (Primary)	Q13586
Synonyms	
Stromal interaction molecule 1, GOK, D11S4896E, STIM-1, STIM1.	
Introduction	
STIM1 is a type-1 transmembrane protein that is necessary for store-operated Ca(2+) entry, a process of extracellular Ca(2+) influx in response to the depletion of Ca(2+) stores in the endoplasmic reticulum (ER). STIM1 localizes predominantly to the ER; upon Ca(2+) release from the ER, STIM1 translocates to the ER-plasma membrane junctions and activates Ca(2+) channels. STIM1 is an adhesion molecule involved in early hematopoiesis by mediating attachment to stromal cells. STIM1 controls the survival and/or proliferation of b-cell precursors. STIM1 gene is one of several genes located in the imprinted gene domain of 11p15.5, a significant tumor-suppressor gene region. Alterations in this region have been associated with the Beckwith-Wiedemann syndrome, Wilms tumor, rhabdomyosarcoma, adrenocrotical carcinoma, and lung, ovarian, and breast cancer. STIM1 is involved in malignancies as well as early hematopoiesis, by mediating attachment to stromal cells. STIM1 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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile filtered colorless solution.	
Formulation	
The STIM1 protein solution (1mg/ml) contains 20mM Tris-HCl pH-7.5.	
Stability	
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.	
Purity	

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Greater than 90.0% as determined by SDS-PAGE.

Amino acid sequence

MADQLTEEQI AEFKEAFSLF DKDGDGTITT KELGTVMRSL GQNPTEAELQ DMINEVDADG NGTIDFPEFL

TMMARKMKDT DSEEEIREAF RVFDKDGNGY ISAAELRHVM TNLGEKLTDE EVDEMIREAD IDGDGQVNYE

EFVQMMTAKG S MLSHSHSEK ATGTSSGANS EESTAAEFCR IDKPLCHSED EKLSFEAVRN IHKLMDDDAN

GDVDVEESDE FLREDLNYHD PTVKHSTFHG EDKLISVEDL WKAWKSSEVY NWTVDEVVQW LITYVELPQY

EETFRKLQLS GHAMPRLAVT NTTMTGTVLK MTDRSHRQKL QLKALDTVLF GPPLLTRHNH LKD.

Precautions

STIM1 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q13586)