

Recombinant Human Stromal Interaction Molecule 1, CaM-tagged

Cat. No. STIM1-344H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Calmodulin tagged STIM was expressed in E.coli and purified by using conventional chromatography techniques (343 aa, 38 kDa).
Species	Human
Source	E.coli
Description	Stromal interaction molecule 1 (STIM1) is a transmembrane protein that is essential 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.
Formulation	Liquid. In 20 mM Tris-HCl buffer (pH 7.5).
Molecular Weight	38 kDa (343 aa).
Purity	> 90% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
Sequence	MADQLTEEQI AEFKEAFSLF DKDGDGTITT KELGTVMRSL GQNPTEAELQ DMINEVDADG NGTIDFPEFL TMMARKMKDT DSEEEIREAF RVFDKDGNGY ISAAELRHVM TNLGEKLTDE EVDEMIREAD IDGDGQVNYE EFVQMMTAKG

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SMLSHSHSEK ATGTSSGANS EESTAAEFGR IDKPLCHSED EKLSFEAVRN
 IHKLMDDDAN GDVDVEESDE FLREDLNYHD PTVKHSTFHG EDKLISVEDL
 WKAWKSSEVY NWTVDEVVQW LITYVELPQY EETFRKLQLS GHAMPRLAVT
 NTTMTGTVLK MDRSHRQKL QLKALDTVLF GPPLLTRHNNH LKD

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION
Gene Name

STIM1

Synonyms

STIM1; stromal interaction molecule 1; STIM1 stromal interaction molecule 1; GOK; D11S4896E.

Gene ID

6786

mRNA Refseq

NM_003156.3

Protein Refseq

NP_003147.2

MIM

605921

UniProt ID

Q13586

**Chromosome
Location**

11p15.5

Pathway

SNARE interactions in vesicular transport; Membrane Trafficking.

Function

calcium ion binding; protein binding.

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