

# Recombinant Human Stromal Interaction Molecule 1, CaM-tagged

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

## SPECIFICATION

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

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SMLSHSHSEK ATGTSSGANS EESTAAEFGR IDKPLCHSED EKLSFEAVRN  
 IHKLMDDAN 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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