

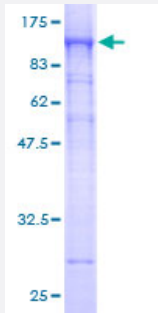
Full-Length

STIM1 (Human) Recombinant Protein (P01)

Catalog # H00006786-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human STIM1 full-length ORF (AAH21300, 24 a.a. - 685 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

SHSHSEKATGTSSGANSEESTAAEFCDKPLCHSEDEKLSFEAVRNHKLMDDDANGDVDVEE
SDEFLREDLNYHDPTVKHSTFHGEDKLISVEDLWKAWSSEVYNWTVDEVVQWLITYVELPQYE
ETFRKLQLSGHAMPRLAVTNTTMTGAVLKMTDRSHRQKLQKALDTVLFGPPLLTRHNHLKDFML
VVSIVIGVGGCWFAIYQNRYSKEHMKMMKDLEGLHRAEQSLHDLQERLHKAQEEHRTVEVEKV
HLEKKLRDEINLAKQEAQRLKELREGTENERSRQKYAEEEELEQVREALRKAKEKELESHSSWYAP
EALQKWLQLTHEVEVQYNIKKQNAEKQLLVAKEGAEKIKKKRNTLFGTFHVAHSSSLDDVDHKIL
TAKQALSEVTAALRERLHRWQQEILCGFQVNNPGIHSLSVAALNIDPSWMGSTRPNPAHFIMTDDV
DDMDEEIVSPLSMQSPSLQSSVRQRLTEPQHGLGSQRDLTHSDSESSLHMSDRQRVAPKPPQM
SRAADEALNAMTSNGSHRLIEGVHPGSLVEKLPDSPALAKKALLALNHGLDKAHSMLMELSPSAP
PGGSPHLDDSSRSHSPSPDPDTPSPVGDSTRALQASRNTRIPHLAGKKAVAEEDNGSIGEETDSS
PGRKKFPLKIFKKPLKK

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

98.56

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — STIM1

Entrez GeneID	6786
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GeneBank Accession#	BC021300
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Protein Accession#	AAH21300
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Gene Name	STIM1
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Gene Alias	D11S4896E, GOK
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Gene Description	stromal interaction molecule 1
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Omim ID	605921
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Gene Ontology	Hyperlink
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Gene 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. 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
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Other Designations	-
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Publication Reference

- [S-glutathionylation activates STIM1 and alters mitochondrial homeostasis.](#)

Hawkins BJ, Irrinki KM, Mallilankaraman K, Lien YC, Wang Y, Bhanumathy CD, Subbiah R, Ritchie MF, Soboloff J, Baba Y, Kurosaki T, Joseph SK, Gill DL, Madesh M.

The Journal of Cell Biology 2010 Aug; 190(3):391.

Application: Func, Calcium