

Recombinant Mouse Stim1 Protein, Myc/DDK-tagged

Cat. No. Stim1-6179M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length stromal interaction molecule 1 (Stim1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Plays a role in mediating store-operated Ca ²⁺ entry (SOCE), a Ca ²⁺ influx following depletion of intracellular Ca ²⁺ stores. Acts as Ca ²⁺ sensor in the endoplasmic reticulum via its EF-hand domain. Upon Ca ²⁺ depletion, translocates from the endoplasmic reticulum to the plasma membrane where it activates the Ca ²⁺ release-activated Ca ²⁺ (CRAC) channel subunit ORAI1. Involved in enamel formation. Activated following interaction with STIMATE, leading to promote STIM1 conformational switch.
Molecular Mass	77.6 kDa
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 after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name Stim1 stromal interaction molecule 1 [Mus musculus (house mouse)]

Official Symbol Stim1

Synonyms STIM1; stromal interaction molecule 1; SIM

Gene ID 20866

mRNA Refseq NM_009287

Protein Refseq NP_033313

UniProt ID P70302

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