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 Ca2+ entry (SOCE), a Ca2+ influx following depletion of intracellular Ca2+ stores. Acts as Ca2+ sensor in the endoplasmic reticulum via its EF-hand domain. Upon Ca2+ depletion, translocates from the endoplasmic reticulum to the plasma membrane where it activates the Ca2+ release-activated Ca2+ (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

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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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