

Recombinant Human Signaling Threshold Regulating Transmembrane Adaptor 1, His-tagged

Cat. No. SIT1-6861H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human SIT1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography. MW: 16.9 kDa.
Species	Human
Source	E.coli
ProteinLength	1-196aa
Description	SIT1, also known as signaling threshold-regulating transmembrane adapter 1, negatively regulates TCR (T-cell antigen receptor)-mediated signaling in T-cells. This protein involved in positive selection of T-cells.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol.
Molecular Mass	16.9 kDa (156aa), confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher).
AA Sequence	MGSSHHHHHH SGLVPRGSH MHLSQWTRGR SRSHPGQGRS GESVEEVPLY GNLHYLQTGR LSQDPEPDQQ DPTLGGPARA AEEVMCYTSL QLRPPQGRIP GPGTPVKYSE VVLDSEPKSQ ASGPEPELYA SVCAQTRRAR ASFPDQAYAN SQPAAS
Purity	>90% by SDS - PAGE

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Applications	SDS-PAGE
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.
Concentration	0.25 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	SIT1 signaling threshold regulating transmembrane adaptor 1 [Homo sapiens]
Official Symbol	SIT1
Synonyms	SIT1; signaling threshold regulating transmembrane adaptor 1; suppression inducing transmembrane adaptor 1; signaling threshold-regulating transmembrane adaptor 1; SHP2 interacting transmembrane adaptor; SIT; gp30/40; suppression-inducing transmembrane adapter 1; SHP2-interacting transmembrane adapter protein; SHP2-interacting transmembrane adaptor protein; RP11-331F9.5; MGC125908; MGC125909; MGC125910;
Gene ID	27240
mRNA Refseq	NM_014450
Protein Refseq	NP_055265
MIM	604964
UniProt ID	Q9Y3P8
Chromosome	9p13-p12

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Location

Pathway

T Cell Receptor Signaling Pathway, organism-specific biosystem;

Function

SH2 domain binding; kinase binding; protein binding;

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