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## Product Data Sheet

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Product Name: SIT1 Human  
 Cat. No.: GP24597  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Signaling threshold-regulating transmembrane adapter 1; SHP2-interacting transmembrane adapter protein; Suppression-inducing transmembrane adapter 1; gp30/40; SIT1; SIT; RP11-331F9.5; MGC125908; MGC125909; MGC125910.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MHLSQWTRGR SRSHPGQGRS GESVEEVPLY GNLHYLQTGR LSQDPEPDQQ DPTLGGPARA AEEVMCYTSL QLRPPQGRIP GPGTPVKYSE VVLDSEPKSQ ASGPEPELYA SVCAQTRRAR ASFPDQAYAN SQPAAS.		
Formulation	SIT1 protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH8.0) and 20% glycerol.		

### Introduction

Signaling threshold-regulating transmembrane adapter 1 (SIT1) negatively regulates T-cell antigen receptor (TCR)-mediated signaling in T-cells. SIT1 is involved in positive selection of T-cells. SIT1 is specifically expressed in T- and B-cells. SIT1 is also present in plasma cells but not in germinal center B-cells (at protein level). SIT1 is expressed in T- and B-cell lymphoma.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

SIT1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide

**Caution: Product has not been fully validated for medical applications. For research use only.**

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chain containing 156 amino acids (62-196 a.a.) and having a molecular mass of 16.9kDa (Molecular weight on SDS-PAGE will appear higher).SIT1 is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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