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## Product Data Sheet

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Product Name: SQSTM1 Human  
 Cat. No.: GP24692  
 Batch No.: 1

### Product Data

Purity	Greater than 90% as determined by SDS-PAGE.	Source	Escherichia Coli.
Physical Appearance	Sterile filtered colorless solution.	Shipping Condition	Shipped with Ice Packs.
Synonyms	A170; OSIL; p60; p62; p62B; PDB3; ZIP3; EBIAP; ORCA; OSIL; SQSTM1.		
Amino Acid Sequence	MAMSYVKDDI FRIYIKEKKE CRRDHRPPCA QEAPRNMVHP NVICDGCNGP VVGTRYKCSV CPDYDLCSVC EGKGLHRGHT KLAFSPFGH LSEGFHSRW LRKVKHGHFG WPGWEMGPPG NWSRPPRAG EARPGPTAES ASGPSEDPSV NFLKNVGESV AAALSPLGIE VDIDVEHGGK RSRLTPVSPE SSSTEEKSSS QPSSCCSDPS KPGGNVEGAT QSLAEQMRKI ALESEGRPEE QMESDNCSSG DDDWTHLSSK EVDPSTGELQ SLQMPSEGP SSLDPSQEGP TGLKEAALYP HLPPEADPRL IESLSQMLSM GFSDEGGWLT RLLQTKNYDI GAALDTIQYS KHPPPL.		
Formulation	Lyophilized from a 0.2 $\mu$ m filtered solution in 10 mM Hepes, 500 mM NaCl with 5% trehalose, pH7.4		

### Introduction

SQSTM1 is an adapter protein which binds ubiquitin and mediates the activation of NF $\kappa$ B1 by TNF- $\alpha$ , NGF and IL-1. SQSTM1 is involved in titin/TTN downstream signaling in muscle cells. SQSTM1 controls signaling cascades through ubiquitination. SQSTM1 participates in cell differentiation, apoptosis, immune response and regulation of K(+) channels. Mutations in UBA domain of the SQSTM1 protein cause Paget's disease because the UBA is essential for aggregate sequestration and cell survival.

### 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.

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

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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### Background

SQSTM1 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 364 amino acids (1-356 a.a.) and having a molecular mass of 39.1 kDa. SQSTM1 protein is fused to an 6 amino acid His-Tag at N-terminus and purified by standard chromatography.

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