

Recombinant Human Sequestosome 1, His-tagged

Cat. No. SQSTM1-2358H **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant human SQSTM1 protein, fused to His-tag at C-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques. 39.7 kDa (364aa).

Species Human

Source E.coli

ProteinLength 1-356 aa

Description SQSTM1 is an adapter protein which binds ubiquitin and regulates signaling cascades through ubiquitination. It may regulate the activation of NFκB1 by TNF-α, nerve growth factor (NGF) and interleukin-1 and play a role in titin/TTN downstream signaling in muscle cells. This protein also may be involved in cell differentiation, apoptosis, immune response and regulation of K⁺ channels. Mutations in the ubiquitin-associated (UBA) domain of the sequestosome 1 protein commonly cause Paget's disease since the UBA is necessary for aggregate sequestration and cell survival.

Form Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 10% glycerol 1mM DTT.

Purity > 90% by SDS – PAGE.

Concentration 1 mg/ml (determined by Bradford assay).

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Sequences Of Amino Acids

MAMSYVKDDI FRIYIKEKKE CRRDHRPPCA QEAPRNMVHP NVICDGCNGP
 VVGTRYKCSV CPDYDLC SVC EGKGLHRGHT KLAFPSFGH LSEGFSHSRW
 LRKVKHGHFG WPGWEMGPPG NWSRPPRAG EARPGPTAES ASGPSEDPSV
 NFLKNVGESV AAALSPLGIE VDIDVEHGGK RSRLTPVSPE SSSTEEKSSS
 QPSSCCSDPS KPGGNVEGAT QSLAEQMRKI ALESEGRPEE QMESDNCSGG
 DDDWTHLSSK EVDPSTGELQ SLQMPSEGP SSLDPSQEGP TGLKEAALYP
 HLPPEADPRL IESLSQMLSM GFSDEGGWLT RLLQTKNYDI GAALDTIQYS
 KHPPPLLEHH HHHH.

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.

GENE INFORMATION

Gene Name

SQSTM1 sequestosome 1 [Homo sapiens]

Synonyms

sequestosome 1; p60; p62; A170; OSIL; PDB3; ZIP3; p62B; SQSTM1;
 sequestosome-1; EBIAP; EBI3-associated protein p60; oxidative stress induced like;
 ubiquitin-binding protein p62; EBI3-associated protein of 60 kDa; phosphotyrosine
 independent ligand for the Lck SH2 domain p62; phosphotyrosine-independent ligand
 for the Lck SH2 domain of 62 kDa; Ubiquitin-binding protein p62; Paget disease of
 bone 3; ORCA; Phosphotyrosine-independent ligand for the Lck SH2 domain of 62
 kDa; P62

Gene ID

8878

mRNA Refseq

NM_001142298

Protein Refseq

NP_001135770

MIM

601530

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UniProt ID	Q13501
Chromosome Location	5q35
Pathway	Signalling by NGF
Function	receptor tyrosine kinase binding; SH2 domain binding; metal ion binding; protein binding; protein kinase C binding; protein kinase binding; ubiquitin binding; zinc ion binding
PDB rendering based on 1q02.	

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