

# Recombinant Human SQSTM1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. SQSTM1-3257H Lot. No. (See product label)

## SPECIFICATION

### Product Overview

SQSTM1 MS Standard C13 and N15-labeled recombinant protein (NP\_003891) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

### Species

Human

### Source

HEK293

### Description

This gene encodes a multifunctional protein that binds ubiquitin and regulates activation of the nuclear factor kappa-B (NF- $\kappa$ B) signaling pathway. The protein functions as a scaffolding/adaptor protein in concert with TNF receptor-associated factor 6 to mediate activation of NF- $\kappa$ B in response to upstream signals. Alternatively spliced transcript variants encoding either the same or different isoforms have been identified for this gene. Mutations in this gene result in sporadic and familial Paget disease of bone.

### Molecular Mass

47.7 kDa

### AA Sequence

MASLTVKAYLLGKEDAAREIRRFSCCSPEPEAEAEAAAAGPGPCERLLSRVAALFPA  
LRPGGFQAHYRDEDGDLVAFSSDEELTMAMSYVKDDIFRIYIKEKKECRRDHRPPCA  
QEAPRNMVHPNVICDGCNGPVVVGTRYKCSVCPDYDLCSVCEGKGLHRGHTKLAFP  
SPFGHLSEGFSHSRWLRKVKHGHFGWPGWEMGPPGNWSPRPPRAGEARPGPTA  
ESASGPSEDPSVNFNFKNVGESVAAAALSPLGIEVDIDVEHGGKRSRLTPVSPSSSTE  
EKSSSQPSSCCSDPSKPGGNVEGATQSLAEQMRKIALESEGRPEEQMESDNCSGG

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DDDWTHLSSKEVDPSTGELQSLQMPSESEGPSSLDPSQEGPTGLKEAALYPHLPPEA  
 DPRLIESLSQMLSMGFSDEGGWLTRLLQTKNYDIGAALDTIQYSKHPPPLTRTRPLE  
 QKLISEEDLAANDILDYKDDDDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage** Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration** 50 µg/mL as determined by BCA

**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

**Gene Name** SQSTM1 sequestosome 1 [ Homo sapiens (human) ]

**Official Symbol** SQSTM1

**Synonyms** SQSTM1; sequestosome 1; OSIL, oxidative stress induced like, Paget disease of bone 3, PDB3; sequestosome-1; A170; p60; p62; p62B; 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; OSIL; PDB3; ZIP3;

**Gene ID** 8878

**mRNA Refseq** NM\_003900

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**Protein Refseq** NP\_003891

**MIM** 601530

**UniProt ID** Q13501

**SDS-PAGE**



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