

SQSTM1, 1-356 aa, Human, His-tagged, Recombinant, E.coli

Cat.NO.: TP04026

3th Edition

Synonyms:A170, OSIL, p60, p62, p62B, PDB3, ZIP3, Sequestosome 1 EBI 3 associated protein of 60 kDa, ZIP, ZIP 3, EBI3 associated protein of 60 kDa, EBIAP, MGC127197, ORCA.M530, OSF-6, Osi

Description:SQSTM1 is an adapter protein which binds ubiquitin and regulates signaling cascades through ubiquitination. It may regulate the activation of NFKB1 by TNF-alpha, 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. Recombinant SQSTM1 protein, fused to His-tag at C-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

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

Molecular Weight:39.7 kDa (364aa), confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

Sequences:

MAMSYVKDDIFRIYIKEKKECRRDHRPPCAQEAPRNMVHPNVICDGCNGPVGTRYKCSVCPDYDLCSVCEGKGL
HRGHTKLAFSPFGHLSEGFHSRWLRKVKHGHFGWPGWEMGPPGNWSPRPPRAGEARPGPTAESASGPSED
PSVNFLKNVGESVAAALSPLGIEVDIDVEHGGKRSRLTPVSPESSSTEEKSSSQPSSCCSDPSKPGGNVEGATQSL
AEQMRKIALESEGRPEEQMESDNCSSGGDDWTHLSSKEVDPSTGELQSLQMPSEGGPSSLDPSQEGPTGLKEAA
LYPHLPPEADPRLIESLSQMLSMGFSDEGGWLTRLLQTKNYDIGAALDTIQYSKHPPPLLEHHHHHHH

Purity:> 95% by HPLC

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

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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.