

TXN, 1-105 aa, Human, His-tagged, Recombinant, E.coli

Cat.NO.: TP04354

3th Edition

Synonyms:TRX, TRX1, Thioredoxin JW0871, ECK0879, Thioredoxin reductase, FAD/NAD(P)-binding, TRXR.

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 Phosphate Buffered Saline pH7.4

Molecular Weight:13.9 kDa (125aa), confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

Sequences:

MGSSHHHHHSSGLVPRGSHMVKQIESKTAFQEALDAAGDKLVVDFSATWCGPCKMIKPPFHSLSEKYSNVIFLE
VDVDDCQDVASECEVKCMPTFQFFKKGQKVGEFSGANKEKLEATINELV

Purity:> 95% by HPLC

Concentration:1 mg/ml (determined by BCA 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.