

## Recombinant Rat Sqstm1 Protein, His-tagged

**Cat. No.** Sqstm1-2098R    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Rat Sqstm1 Protein (Ala2-Leu439) with N-His tag was expressed in E. coli.
<b>Species</b>	Rat
<b>Source</b>	E.coli
<b>ProteinLength</b>	Ala2-Leu439
<b>Description</b>	Enables identical protein binding activity and protein kinase C binding activity. Involved in positive regulation of protein phosphorylation and response to ischemia. Located in Lewy body and mitochondrion. Biomarker of glaucoma and hypertension. Human ortholog(s) of this gene implicated in GNE myopathy; Paget's disease of bone; and frontotemporal dementia and/or amyotrophic lateral sclerosis-3. Orthologous to human SQSTM1 (sequestosome 1).
<b>Form</b>	Freeze-dried powder
<b>Molecular Mass</b>	Predicted Molecular Mass: 51.3 kDa Accurate Molecular Mass: 60 kDa
<b>Purity</b>	> 90%
<b>Applications</b>	Positive Control; Immunogen; SDS-PAGE; WB.

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<b>Stability</b>	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
<b>Storage Buffer</b>	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
<b>Reconstitution</b>	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Sqstm1 sequestosome 1 [ Rattus norvegicus (Norway rat) ]</a>
<b>Official Symbol</b>	<a href="#">Sqstm1</a>
<b>Synonyms</b>	SQSTM1; sequestosome 1; sequestosome-1; oxidative stress induced; PKC-zeta-interacting protein; ubiquitin-binding protein p62; protein kinase C-zeta-interacting protein; Osi; ZIP; ZIP3;
<b>Gene ID</b>	<a href="#">113894</a>
<b>mRNA Refseq</b>	<a href="#">NM_175843</a>
<b>Protein Refseq</b>	<a href="#">NP_787037</a>
<b>UniProt ID</b>	<a href="#">O08623</a>

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