

Recombinant Yeast SMT3 Protein, His-tagged

Cat. No. SMT3-1244Y **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Yeast SMT3 Protein (Met1-Gly97) with His tag was expressed in E. coli.
Species	Yeast
Source	E.coli
ProteinLength	Met1-Gly97
Description	Enables protein tag. Involved in protein sumoylation. Located in condensed nuclear chromosome and septin ring. Used to study cancer. Human ortholog(s) of this gene implicated in orofacial cleft 10 and type 1 diabetes mellitus 5. Orthologous to several human genes including SUMO1 (small ubiquitin like modifier 1).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 16.5 kDa; Accurate Molecular Mass: 18 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	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.

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Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	SMT3 SUMO family protein SMT3 [<i>Saccharomyces cerevisiae</i> S288C]
Official Symbol	SMT3
Synonyms	SMT3; SUMO family protein SMT3; SUMO family protein SMT3; Ubiquitin-like protein of the SUMO family; conjugated to lysine residues of target proteins; associates with transcriptionally active genes; regulates chromatid cohesion, chromosome segregation, APC-mediated proteolysis, DNA replication and septin ring dynamics; human homolog SUMO1 can complement yeast null mutant
Gene ID	852122
mRNA Refseq	NM_001180818
Protein Refseq	NP_010798
UniProt ID	Q12306

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