

## Recombinant Human NSMCE1, His-tagged

Cat. No. NSMCE1-15875H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human NSMCE1 protein, fused to His tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-266aa
<b>Description</b>	NSMCE1 is a component of the SMC5-SMC6 complex, a complex involved in DNA double-strand breaks by homologous recombination. The complex may promote sister chromatid homologous recombination by recruiting the SMC1-SMC3 cohesin complex to double-strand breaks. The complex is required for telomere maintenance via recombination in ALT (alternative lengthening of telomeres) cell lines and mediates sumoylation of shelterin complex (telosome) components which is proposed to lead to shelterin complex disassembly in ALT-associated PML bodies (APBs). NSMCE1 has in vitro ubiquitin ligase activity in presence of NDNL2.
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT.
<b>Molecular Mass</b>	33 kDa (289aa), confirmed by MALDI-TOF
<b>AA Sequence</b>	MGSSHHHHHH SSGLVPRGSH MGSMQGSTRR MGVMTDVHRR FLQLLMTHGV LEEWDVKRLQ THCYKVDHNRN ATVDKLEDFI NNINSVLESL YIEIKRGVTE

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DDGRPIYALV NLATTSISKM ATDFAENELD LFRKALELII DSETGFASST  
 NILNLVDQLK GKKMRKKEAE QVLQKFVQNK WLIEKEGEFT LHGRAILEME  
 QYIRETYPDA VKICNICHSL LIQQQSCETC GIRMHLPCVA KYFQSNAEPR  
 CPHCNDYWPH EIPKVFDPK ERESGVLKSN KKSLRSRQH

**Purity** >95% by SDS - PAGE

**Applications** SDS-PAGE

**Storage** Can be stored at 4°C short term. For long term storage, aliquot and store at at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**Concentration** 0.5 mg/ml (determined by Bradford assay)

## GENE INFORMATION

**Gene Name** NSMCE1 non-SMC element 1 homolog (*S. cerevisiae*) [ *Homo sapiens* ]

**Official Symbol** NSMCE1

**Synonyms** NSMCE1; non-SMC element 1 homolog (*S. cerevisiae*); non-structural maintenance of chromosomes element 1 homolog; NSE1;

**Gene ID** [197370](#)

**mRNA Refseq** [NM\\_145080](#)

**Protein Refseq** [NP\\_659547](#)

**UniProt ID** [Q8WV22](#)

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<b>Chromosome Location</b>	16p12.1
<b>Function</b>	metal ion binding; ubiquitin-protein ligase activity; zinc ion binding;

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