

Recombinant Human NSMCE1, His-tagged

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

SPECIFICATION

Product Overview	Recombinant human NSMCE1 protein, fused to His tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	1-266aa
Description	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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT.
Molecular Mass	33 kDa (289aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMQGSTRR MGVMTDVHRR FLQLLMTHGV LEEWDVKRLQ THCYKVHDRN ATVDKLEDFI NNINSVLESL YIEIKRGVTE

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DDGRPIYALV NLATTSISKM ATDFAENELD LFRKALELII DSETGFASST
 NILNLVDQLK GKKMRKKEAE QVLQKFVQNK WLIEKEGEFT LHGRAILEME
 QYIRETYPDA VKICNICHSL LIQGQSCETC GIRMHLPCVA KYFQSNAEPR
 CPHCNDYWPH EIPKVFDPEK 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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Chromosome Location	16p12.1
Function	metal ion binding; ubiquitin-protein ligase activity; zinc ion binding;