Recombinant human NSMCE1 protein

Catalog Number: ATGP2231

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-266aa

UniProt No.
Q8WV22

NCBI Accession No.
NP_659547

Alternative Names
Non-structural maintenance of chromosomes element 1 homolog, NSE1

PRODUCT SPECIFICATION

Molecular Weight
33 kDa (289aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT

Purity
> 95% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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. Recombinant human

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NSMCE1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

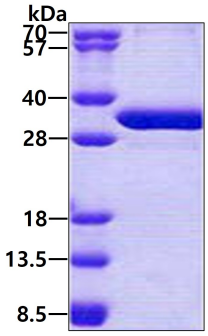
<MGSSHHHHHH SSGLVPRGSH MGS>MQGSTRR MGVMTDVHRR FLQLLMTHGV LEEWDVKRLQ THCYKVHDRN ATVDKLEDFI NNINSVLESL YIEIKRGVTE DDGRPIYALV NLATTSISKM ATDFAENELD LFRKALELII DSETGFASST NILNLVDQLK GKKMRKKEAE QVLQKFVQNK WLIEKEGEFT LHGRAILEME QYIRETYPDA VKICNICHSL LIQGQSCETC GIRMHLPCVA KYFQSNAEPR CPHCNDYWPH EIPKVFDPEK ERESGVLKSN KKSLRSRQH

General References

Hudson JJ, Bednarova K, et al. (2011). PLoS One. 6(2):e17270.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.