

NSMCE1, 1-266aa, Human, His tag, E.coli

Cat.NO.: TP03205

3th Edition

Synonyms:Non-structural maintenance of chromosomes element 1 homolog, NSE1

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

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

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

Sequences:

MGSSHHHHHSSGLVPRGSHMGSMQGSTRRMGVMTDVHRRFLQLLMTHGVLEEWVVKRLQTHCYKVHDRNAT
VDKLEDFINNINSVLESLEYIEIKRGVTEDDGRPIYALVNLATTSISKMATDFAENELDLFRKALELIIDSETGFASSTNILN
LVDQLKGKMRKKEAEQVLQKFVQNKWLEIEGEGFTLHGRAILEMEQYIREYTPDAVKICNICHSLLIQGQSCETCGI
RMHLPCVAKYFQSNAEPRCPHCNDYWPHEIPKVFDPKERESEGLKSNKSLRSRQH

Purity:> 95% by HPLC

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

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.