

32-4347: Recombinant Human Non-SMC Element 1

Alternative Name : Non-SMC Element 1 Homolog (*S. Cerevisiae*),NSE1,Non-Structural Maintenance of Chromosomes Element 1 Homolog,Non-SMC Element 1 Homolog,EC 6.3.2.-.

Description

Source : Escherichia Coli. NSMCE1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 289 amino acids (1-266) and having a molecular mass of 33.0kDa.NSMCE1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. 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.

Product Info

Amount : 20 µg
Purification : Greater than 95% as determined by SDS-PAGE.
Content : The NSMCE1 solution contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 1mM DTT and 20% glycerol.
Storage condition : Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.
Amino Acid : MGSSHHHHHH SGLVPRGSH MGSMQGSTRR MGVMTDVHRR FLQLLMTHGV LEEWDVKRLQ
THCYKVHDRN ATVDKLEDFI NNINSVLESL YIEIKRGVTE DDGRPIYALV NLATTSISKM ATDFAENELD
LFRKALELII DSETGFASST NILNLVDQLK GKKMRKKEAE QVLQKFVQNK WLIEKEGEFT LHGRAILEME
QYIREYTPDA VKICNICHSL LIQQSCETC GIRMHLPCVA KYFQSNAEPR CPHCNDYWPH EIPKVFDEPK
ERESGVLKSN KKSLRSRQH