9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

NSMCE1 Human

Non-SMC Element 1 Human Recombinant
RCP1527

Product Overview

Name	NSMCE1 Human
Description	
Non-SMC Element 1 Human Recombinant	
Accession (Primary)	Q8WV22
Synonyms	
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.-.	
Introduction	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile filtered colorless solution.	
Formulation	
The NSMCE1 solution contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 1mM DTT and 20% glycerol.	
Stability	
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.	
Purity	
Greater than 95% as determined by SDS-PAGE.	
Amino acid sequence	
MGSSHHHHHH SSGLVPRGSH MGS MQGSTRR MGVMTDVHRR FLQLLMTHGV LEEWDVKRLQ THCYKVHDRN ATVDKLEDFI NNINSVLESL YIEIKRGVTE DDGRPIYALV NLATTSISKM ATDFAENELD LFRKALELII DSETGFASST	

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NILNLVDQLK GKKMRKKEAE QVLQKFVQNK WLIEKEGEFT LHGRAILEME QYIRETYPDA VKICNICHSL

LIQGQSCETC GIRMHLPCVA KYFQSNAEPR CPHCNDYWPH EIPKVFDPEK ERESGVLKSN KKSLRSRQH

Precautions

NSMCE1 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q8WV22)