
Product Data Sheet

Product Name: NSMCE1 Human
 Cat. No.: GP24068
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
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.-.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMQGSTRR MGVMTDVHRR FLQLLMTHGV LEEWDVKRLQ THCYKVHDRN ATVDKLEDFI NNINSVLESL YIEIKRGVTE DDGRPIYALV NLATTSISKM ATDFAENELD LFRKALELII DSETGFASST NILNLVDQLK GKKMRKKEAE QVLQKFVQNK WLIEKEGEFT LHGRAILEME QYIRETYPDA VKICNICHSL LIQGQSCETC GIRMHLPCVA KYFQSNAEPR CPHCNDYWPH EIPKVFDPK ERESGVLKSN KKSLRSRQH		
Formulation	The NSMCE1 solution contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 1mM DTT and 20% glycerol.		

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.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks.

Background

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

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