

Datasheet for ABIN7549991

## NSMCE1 Protein (AA 1-266) (His tag)



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### Overview

Quantity:	1 mg
Target:	NSMCE1
Protein Characteristics:	AA 1-266
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NSMCE1 protein is labelled with His tag.

### Product Details

Purpose:	Custom-made recombinant NSMCE1 Protein expressed in mammalian cells.
Sequence:	<p>MQGSTRRMGV MTDVHRRFLQ LLMTHGVLEE WDVKRLQTHC YKVHDRNATV DKLEDFINNI</p> <p>NSVLESLEYIE IKRGVTEDDG RPIYALVNLA TTSISKMATD FAENELDLFR KALELIIDSE</p> <p>TGFASSTNIL NLVDQLKGKK MRKKEAEQVL QKFVQNKWLI EKEGEFTLHG RAILEMEQYI</p> <p>RETYPDAVKI CNICHSLLIQ GQSCETCGIR MHLPCVAKYF QSNAEPRCPH CNDYWPHEIP</p> <p>KVFDPEKERE SGVLKSNKKS LRSRQH <b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</b></p>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none"> <li>Made to order protein - from design to production - by highly experienced protein experts.</li> </ul>

## Product Details

- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

## Target Details

Target:	NSMCE1
Alternative Name:	NSMCE1 ( <a href="#">NSMCE1 Products</a> )
Background:	<p>Non-structural maintenance of chromosomes element 1 homolog (Non-SMC element 1 homolog) (EC 2.3.2.27),FUNCTION: RING-type zinc finger-containing E3 ubiquitin ligase that assembles with melanoma antigen protein (MAGE) to catalyze the direct transfer of ubiquitin from E2 ubiquitin-conjugating enzyme to a specific substrate. Within MAGE-RING ubiquitin ligase complex, MAGE stimulates and specifies ubiquitin ligase activity likely through recruitment and/or stabilization of the E2 ubiquitin-conjugating enzyme at the E3:substrate complex. Involved in maintenance of genome integrity, DNA damage response and DNA repair (PubMed:29225034, PubMed:20864041). NSMCE3/MAGEG1 and NSMCE1 ubiquitin ligase are components of SMC5-SMC6 complex and may positively regulate homologous recombination-mediated DNA repair (PubMed:18086888). MAGEF1-NSMCE1 ubiquitin ligase promotes proteasomal degradation of MMS19, a key component of the cytosolic iron-sulfur protein assembly (CIA) machinery. Down-regulation of MMS19 impairs the activity of several DNA repair and metabolism enzymes such as ERCC2/XPD, FANCI, RTEL1 and POLD1 that require iron-sulfur clusters as cofactors (PubMed:29225034). {ECO:0000269 PubMed:18086888, ECO:0000269 PubMed:20864041, ECO:0000269 PubMed:29225034}.</p>

## Target Details

Molecular Weight:	30.9 kDa
UniProt:	<a href="#">Q8WV22</a>
Pathways:	<a href="#">Positive Regulation of Response to DNA Damage Stimulus</a>

## Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months