

Datasheet for ABIN7562861
MSH3 Protein (AA 1-1091) (His tag)



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Overview

Quantity:	1 mg
Target:	MSH3
Protein Characteristics:	AA 1-1091
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MSH3 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Msh3 Protein expressed in mammalian cells.
Sequence:	<p>MPRGKSASGG STAAGPGPGR QTVLSRFFRS AGSLRSSASS TEPAEKVTEG DSRKRSLGNG GPTKKKARKV PEKEENISV ASHHPEAKKC LRPRVLKSL EKLKEFCCDS ALPQNRVQTE ALRERLEVL P RCTDFEDITL QRAKNAVLSE DSKSQANQKD SQFGPCPEVF QKTS DCKPFN KRSKSVYTPL ELQYLDMKQQ HKDAVLCVEC GYKYRFFGED AEIAARELNI YCHLDHNFMT ASIPTHRLFV HVRRLVAKGY KGVVVKQTET AALKAIGDNK SSVFSRKLTA LYTKSTLIGE DVNPLIRLDD SVNIDEVMTD TSTNYLLCIY EEKENIKDKK KGNLSVGVVG VQPATGEVWF DCFQDSASRL ELETRISLQ PVELLLPSDL SEPTEMLIQR ATNVSVRDDR IRVERMNNTY FEYSHAFQTV TEFYAREIVD SQGSQSLSGV INLEKPVICA LAAVIRYLKE FNLEKMLSKP ESFKQLSSGM EFMRINGTTL RNLEMVQNQT DMKTKGSLW VLDHTKTSFG RRKLKNWVTQ PLLKREINA RLDAVSDVLH SESSVFEQIE NLLRKLDPVE RGLCSIYHKK CSTQEFLIV KSLCQLKSEL QALMPAVNSH VQSDLLRALI VELLSPVEHY LKVLNGPAAK VGDKTELFKD LSDFPLIKKR KNEIQEVIHS IQMRLQEFRK ILKLPSLQYV TVSGQEFMIE IKNSAVSCIP</p>

Product Details

ADWVKVGSTK AVSRFHPPFI VESYRRLNQL REQLVLCNA EWLGFLENFG EHYHTLCKAV
DHLATVDCIF SLAKVAKQGN YCRPTLQEEK KIIKNGRHP MIDVLLGEQD QFVPNSTSLS
DSERVMITG PNMGGKSSYI KQVTLVTIMA QIGSYVPAEE ATIGIVDGIF TRMGAADNIY
KGRSTFMEQL TDTAEIIRRA SPQSLVILDE LGRGTSTHDG IAIAYATLEY FIRDVKSLTL
FVTHYPPVCE LEKCYPEQVG NYHMGFLVNE DESKQDSGDM EQMPDSVTFL YQITRGIAAR
SYGLNVAKLA DVPREVLQKA AHKSKELEGL VSLRRKRLEC FTDLWMTHSV KDLHTWADKL
EMEEIQTSLP H **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.**

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: Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- 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: MSH3

Alternative Name: Msh3 ([MSH3 Products](#))

Background: DNA mismatch repair protein Msh3 (Protein repair-1) (REP-1) (Protein repair-3) (REP-3),FUNCTION: Component of the post-replicative DNA mismatch repair system (MMR).

Target Details

Heterodimerizes with MSH2 to form MutS beta which binds to DNA mismatches thereby initiating DNA repair. When bound, the MutS beta heterodimer bends the DNA helix and shields approximately 20 base pairs. MutS beta recognizes large insertion-deletion loops (IDL) up to 13 nucleotides long. After mismatch binding, forms a ternary complex with the MutL alpha heterodimer, which is thought to be responsible for directing the downstream MMR events, including strand discrimination, excision, and resynthesis (By similarity). {ECO:0000250}.

Molecular Weight: 123.1 kDa

UniProt: [P13705](#)

Pathways: [DNA Damage Repair](#), [Production of Molecular Mediator of Immune Response](#)

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