

Datasheet for ABIN7554626

## MSH3 Protein (AA 1-1137) (His tag)



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### Overview

Quantity:	1 mg
Target:	MSH3
Protein Characteristics:	AA 1-1137
Origin:	Human
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>MSRRKPASGG LAASSAPAR QAVLSRFFQS TGLKSTSSS TGAADQVDPG AAAAAAAAAA</p> <p>AAPPAPPAPA FPPQLPPHIA TEIDRRKKRP LENDGPVKKK VKKVQKKEGG SDLGMSGNSE</p> <p>PKKCLRTRNV SKSLEKLKEF CCDSALPQSR VQTESLQERF AVLPKCTDFD DISLLHAKNA</p> <p>VSSEDSKRQI NQKDTTLFDL SQFGSSNTSH ENLQKTASKS ANKRSKSIYT PLELQYIEMK</p> <p>QQHKDAVLCV ECGYKYRFFG EDAEIAAREL NIYCHLDHNF MTASIPTHRL FVHVRRLVAK</p> <p>GYKGVVVKQT ETAALKAIGD NRSSLFSRKL TALYTKSTLI GEDVNPLIKL DDAVNVDIEM</p> <p>TDTTSYLLC ISENKENVRD KKKGNIFIGI VGVQPATGEV VFDSFQDSAS RSELETRMSS</p> <p>LQPVELLPS ALSEQTEALI HRATSVSVQD DRIRVERMDN IYFEYSHAFQ AVTEFYAKDT</p> <p>VDIKGSQIIS GIVNLEKPMI CSLAAIKYL KEFNLEKMLS KPENFKQLSS KMEFMTINGT</p> <p>TLRNLEILQN QTDMKTKGSL LWVLDHTKTS FGRRKLKKWV TQPLLKLEI NARLDAVSEV</p> <p>LHSESSVFGQ IENHLRKLPD IERGLCSIYH KKCSTQEFL IVKTLYHLKS EFQAIIPAVN</p> <p>SHIQSDLLRT VILEIPELLS PVEHYLKILN EQAAKVGDKT ELFKDLSDFP LIKKRKDEIQ GVIDEIRMHL</p>

## Product Details

QEIRKILKNP SAQYVTVSGQ EFMIEIKNSA VSCIPTDWVK VGSTKAVSRF HSPFIVENYR  
HLNQLREQLV LDCSAEWLDF LEKFSEHYHS LCKAVHHLAT VDCIFSLAKV AKQGDYCRPT  
VQEERKIVIK NGRHPVIDVL LGEQDQYVPN NTDLSEDSER VMIITGPNMG GKSSYIKQVA  
LITIMAQIGS YVPAEEATIG IVDGIFTRMG AADNIYKGQS TFMEELTDTA EIIRKATSQS  
LVILDELGRG TSTHDGIAIA YATLEYFIRD VKSLTLFVTH YPPVCELEKN YSHQVGNYHM  
GFLVSEDESK LDPGAAEQVP DFVTFLYQIT RGIAARSYGL NVAKLADVPD EILKKAHKS  
KELEGLINTK RKRLKYFAKL WTMHNAQDLQ KWTEEFNMEE TQTSLLH **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 (hMSH3) (Divergent upstream protein) (DUP) (Mismatch

## Target Details

repair protein 1) (MRP1),FUNCTION: Component of the post-replicative DNA mismatch repair system (MMR). 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.

Molecular Weight: 127.4 kDa

UniProt: [P20585](#)

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