Datasheet for ABIN7553847

Exonuclease 1 Protein (EXO1) (AA 1-846) (His tag)

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Overview

Quantity:	1 mg
Target:	Exonuclease 1 (EXO1)
Protein Characteristics:	AA 1-846
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Exonuclease 1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant EXO1 Protein expressed in mammalian cells.
Sequence:	MGIQGLLQFI KEASEPIHVR KYKGQVVAVD TYCWLHKGAI ACAEKLAKGE PTDRYVGFCM KFVNMLLSHG IKPILVFDGC TLPSKKEVER SRRERRQANL LKGKQLLREG KVSEARECFT RSINITHAMA HKVIKAARSQ GVDCLVAPYE ADAQLAYLNK AGIVQAIITE DSDLLAFGCK KVILKMDQFG NGLEIDQARL GMCRQLGDVF TEEKFRYMCI LSGCDYLSSL RGIGLAKACK VLRLANNPDI VKVIKKIGHY LKMNITVPED YINGFIRANN TFLYQLVFDP IKRKLIPLNA YEDDVDPETL SYAGQYVDDS IALQIALGNK DINTFEQIDD YNPDTAMPAH SRSHSWDDKT CQKSANVSSI WHRNYSPRPE SGTVSDAPQL KENPSTVGVE RVISTKGLNL PRKSSIVKRP RSAELSEDDL LSQYSLSFTK KTKKNSSEGN KSLSFSEVFV PDLVNGPTNK KSVSTPPRTR NKFATFLQRK NEESGAVVVP GTRSRFFCSS DSTDCVSNKV SIQPLDETAV TDKENNLHES EYGDQEGKRL VDTDVARNSS DDIPNNHIPG DHIPDKATVF TDEESYSFES SKFTRTISPP TLGTLRSCFS WSGGLGDFSR TPSPSPSTAL QQFRRKSDSP TSLPENNMSD VSQLKSEESS DDESHPLREE ACSSQSQESG EFSLQSSNAS KLSQCSSKDS DSEESDCNIK LLDSQSDQTS

Product Details

	KLRLSHFSKK DTPLRNKVPG LYKSSSADSL STTKIKPLGP ARASGLSKKP ASIQKRKHHN AENKPGLQIK LNELWKNFGF KKDSEKLPPC KKPLSPVRDN IQLTPEAEED IFNKPECGRV QRAIFQ **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:	Exonuclease 1 (EXO1)
Alternative Name:	EXO1 (EXO1 Products)
Background:	Exonuclease 1 (hExo1) (EC 3.1.-.-) (Exonuclease I) (hExoI),FUNCTION: 5'->3' double-stranded DNA exonuclease which may also possess a cryptic 3'->5' double-stranded DNA exonuclease activity. Functions in DNA mismatch repair (MMR) to excise mismatch-containing DNA tracts directed by strand breaks located either 5' or 3' to the mismatch. Also exhibits endonuclease activity against 5'-overhanging flap structures similar to those generated by displacement synthesis when DNA polymerase encounters the 5'-end of a downstream Okazaki fragment.

Target Details

	Required for somatic hypermutation (SHM) and class switch recombination (CSR) of immunoglobulin genes. Essential for male and female meiosis. {ECO:0000269|PubMed:10364235, ECO:0000269|PubMed:10608837, ECO:0000269|PubMed:11809771, ECO:0000269|PubMed:11842105, ECO:0000269|PubMed:12414623, ECO:0000269|PubMed:12704184, ECO:0000269|PubMed:14636568, ECO:0000269|PubMed:14676842, ECO:0000269|PubMed:15225546, ECO:0000269|PubMed:15886194, ECO:0000269|PubMed:16143102, ECO:0000269|PubMed:9685493}.
Molecular Weight:	94.1 kDa
UniProt:	Q9UQ84
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

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