Datasheet for ABIN7553839

# EXOSC9 Protein (AA 1-439) (His tag)

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## Overview

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| Quantity: | 1 mg |
| Target: | EXOSC9 |
| Protein Characteristics: | AA 1-439 |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This EXOSC9 protein is labelled with His tag. |

## Product Details

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| Purpose: | Custom-made recombinant EXOSC9 Protein expressed in mammalian cells. |
| Sequence: | MKETPLSNCE RRFLLRAIEE KKRLDGRQTY DYRNIRISFG TDYGCCIVEL GKTRVLGQVS CELVSPKLNR ATEGILFFNL ELSQMAAPAF EPGRQSDLLV KLNRLMERCL RNSKCIDTES LCVVAGEKVW QIRVDLHLLN HDGNIIDAAS IAAIVALCHF RRPDVSVQGD EVTLYTPEER DPVPLSIHHM PICVSFAFFQ QGTYLLVDPN EREERVMDGL LVIAMNKHRE ICTIQSSGGI MLLKDQVLRC SKIAGVKVAE ITELILKALE NDQKVRKEGG KFGFAESIAN QRITAFKMEK APIDTSDVEE KAEEIIAEAE PPSEVVSTPV LWTPGTAQIG EGVENSWGDL EDSEKEDDEG GGDQAIILDG IKMDTGVEVS DIGSQDAPII LSDSEEEEMI ILEPDKNPKK IRTQTTSAKQ EKAPSKKPVK RRKKKRAAN **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. |

## Product Details

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| Characteristics: | Key Benefits:<br>• Made to order protein - from design to production - by highly experienced protein experts.<br>• Protein expressed in mammalian cells and purified in one-step affinity chromatography<br>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.<br>• State-of-the-art algorithm used for plasmid design (Gene synthesis).<br><br>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.<br><br>If you are not interested in a full length protein, please contact us for individual protein fragments.<br><br>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

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| Target: | EXOSC9 |
| Alternative Name: | EXOSC9 (EXOSC9 Products) |
| Background: | Exosome complex component RRP45 (Autoantigen PM/Scl 1) (Exosome component 9) (P75 polymyositis-scleroderma overlap syndrome-associated autoantigen) (Polymyositis/scleroderma autoantigen 1) (Polymyositis/scleroderma autoantigen 75 kDa) (PM/Scl-75),FUNCTION: Non-catalytic component of the RNA exosome complex which has 3'->5' exoribonuclease activity and participates in a multitude of cellular RNA processing and degradation events. In the nucleus, the RNA exosome complex is involved in proper maturation of stable RNA species such as rRNA, snRNA and snoRNA, in the elimination of RNA processing by-products and non-coding 'pervasive' transcripts, such as antisense RNA species and promoter-upstream transcripts (PROMPTs), and of mRNAs with processing defects, thereby limiting or excluding their export to the cytoplasm. The RNA exosome may be involved in Ig class switch recombination (CSR) and/or Ig variable region somatic hypermutation (SHM) by targeting AICDA deamination activity to transcribed dsDNA substrates. In the cytoplasm, the RNA exosome complex is involved in general mRNA turnover and specifically degrades |

## Target Details

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| | inherently unstable mRNAs containing AU-rich elements (AREs) within their 3' untranslated regions, and in RNA surveillance pathways, preventing translation of aberrant mRNAs. It seems to be involved in degradation of histone mRNA. The catalytic inactive RNA exosome core complex of 9 subunits (Exo-9) is proposed to play a pivotal role in the binding and presentation of RNA for ribonucleolysis, and to serve as a scaffold for the association with catalytic subunits and accessory proteins or complexes. EXOSC9 binds to ARE-containing RNAs. {ECO:0000269\|PubMed:11782436, ECO:0000269\|PubMed:16455498, ECO:0000269\|PubMed:16912217, ECO:0000269\|PubMed:17545563}. |
| Molecular Weight: | 48.9 kDa |
| UniProt: | Q06265 |

## Application Details

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| 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

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| 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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