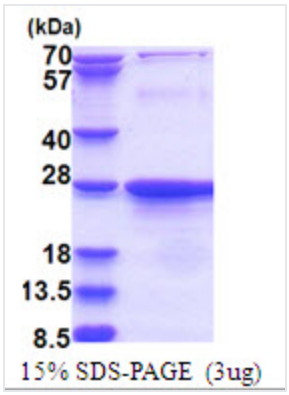
EXOSC1 Recombinant Protein

PRODUCT OVERVIEW

Product Name	EXOSC1, Recombinant Protein
Full Product Name	EXOSC1, 1-195aa, Human, His tag, E Coli
Product Gene Name	EXOSC1 recombinant protein
Product Synonym Names	Exosome complex component CSL4; Exosome component 1; CGI-108; CSL4; Csl4p; hCsl4p; p13; RP11-452K12.9; SKI4; Ski4p
Sequence	MGSSHHHHHH SSGLVPRGSH MGSMAPPVRY CIPGERLCNL EEGSPGSGTY TRHGYIFSSL AGCLMKSSEN GALPVVSVVR ETESQLLPDV GAIVTCKVSS INSRFAKVHI LYVGSMPLKN SFRGTIRKED VRATEKDKVE IYKSFRPGDI VLAKVISLGD AQSNYLLTTA ENELGVVVAH SESGIQMVPI SWCEMQCPKT HTKEFRKVAR VQPEFLQT
Host	E Coli
Form/Format	Liquid. In 20mM Tris-HCl Buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT
Purity/Purification	> 90% by SDS-PAGE
Concentration	0.25 mg/ml (determined by Bradford assay) (lot specific)
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.
Molecular Weight	23.8 kDa (218aa) confirmed by MALDI-TOF
OMIM	AF151866 mRNA
3D Structure	ModBase 3D Structure for Q9Y3B2
Antigen Species	Human
Tag Information	His-tag
Product Categories/Family for EXOSC1 recombinant protein	Epigenomics (Transcription & Translation)
Applications Tested/Suitable for EXOSC1 recombinant protein	SDS-PAGE
Related Product Information for EXOSC1 recombinant protein	EXOSC1 is a core component of the exosome. The mammalian exosome is required for rapid degradation of Au rich element-containing RNAs but not for poly (A) shortening. The association of this protein with the exosome is mediated by protein-protein interactions with ribosomal RNA-processing protein 42 and ribosomal RNA-processing protein 46. Recombinant human EXOSC1 protein, fused to His-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography techniques.
Product References and Citations for EXOSC1 recombinant protein	Lai C.-H., Chou C.-Y., et al. (2000) Genome Res. 10:703-713
Other Notes	Small volumes of EXOSC1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for EXOSC1 purchase	MBS205615 is a recombinant protein targeting EXOSC1. Also known as EXOSC1, 1-195aa, Human, His tag, E Coli. Host: E Coli.



SDS-Page of EXOSC1 recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EXOSC1. It may not necessarily be applicable to this product.

NCBI GI #	7705612
NCBI GeneID	51013
NCBI Accession #	NP_057130
UniProt Primary Accession #	Q9Y3B2
UniProt Secondary Accession #	Q5JTH3; B2R9B3
UniProt Related Accession #	Q9Y3B2
GenBank Nucleotide #	NM_016046.4
NCBI Official Full Name	exosome complex component CSL4 isoform a
NCBI Official Synonym Full Names	exosome component 1
NCBI Official Symbol	EXOSC1
NCBI Official Synonym Symbols	p13; CSL4; SKI4; Csl4p; Ski4p; CGI-108
UniProt Protein Name	Exosome complex component CSL4
UniProt Synonym Protein Names	Exosome component 1
UniProt Gene Name	EXOSC1
UniProt Synonym Gene Names	CSL4
NCBI Protein Information	exosome complex component CSL4
NCBI Summary for EXOSC1	This gene encodes a core component of the exosome. The mammalian exosome is required for rapid degradation of AU rich element-containing RNAs but not for poly(A) shortening. The association of this protein with the exosome is mediated by protein-protein interactions with ribosomal RNA-processing protein 42 and ribosomal RNA-processing protein 46. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jan 2016]

UniProt Comments for EXOSC1	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 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. EXOSC1 as peripheral part of the Exo-9 complex stabilizes the hexameric ring of RNase PH-domain subunits through contacts with EXOSC6 and EXOSC8.
Research Articles on EXOSC1	**1.** The combined p16- and p53-expression status in cervical metastases of CUP may represent a simple method for risk stratification. Further validation of these biomarkers in large prospective trials is essential to design rational trials for CUP treatment optimization.
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