

Recombinant Human EXOSC5 Protein (M1-S235), Tag Free

Cat. No. EXOSC5-0725H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GG-EXOSC5(M1-S235 end) Protein was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	M1-S235
Description	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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	serve as a scaffold for the association with catalytic subunits and accessory proteins or complexes.
Form	Liquid
Endotoxin	< 0.01 EU per µg of the protein
Purity	90%
Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Supplied as sterile 50 mM Tris-HCl (pH7.5), 200 mM NaCl, 20% glycerol
Shipping	It is shipped out with blue ice.

GENE INFORMATION

Gene Name	EXOSC5 exosome component 5 [Homo sapiens (human)]
Official Symbol	EXOSC5
Synonyms	EXOSC5; exosome component 5; exosome complex component RRP46; exosome component Rrp46; hRrp46p; MGC12901; p12B; RRP41B; RRP46; Rrp46p; exosome complex exonuclease RRP46; ribosomal RNA-processing protein 46; chronic myelogenous leukemia tumor antigen 28; MGC111224;
Gene ID	56915

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mRNA Refseq	NM_020158
Protein Refseq	NP_064543
MIM	606492
UniProt ID	Q9NQT4

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