Recombinant Human EXOSC2 Protein (M1-G293), Tag Free

Cat. No. EXOSC2-0727H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GG-EXOSC2(M1-G293 end) Protein was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	M1-G293
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

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	serve as a scaffold for the association with catalytic subunits and accessory proteins or complexes. EXOSC2 as peripheral part of the Exo-9 complex stabilizes the hexameric ring of RNase PH-domain subunits through contacts with EXOSC4 and EXOSC7.
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	EXOSC2 exosome component 2 [Homo sapiens (human)]
Official Symbol	EXOSC2
Synonyms	EXOSC2; exosome component 2; exosome complex component RRP4; homolog of yeast RRP4 (ribosomal RNA processing 4); 3 5 exoribonuclease (RRP4); hRrp4p; p7; RRP4; Rrp4p; exosome complex exonuclease RRP4; ribosomal RNA-processing protein 4; homolog of yeast RRP4 (ribosomal RNA processing 4), 3-5-

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	exoribonuclease; homolog of yeast RRP4 (ribosomal RNA processing 4), 3 5 exoribonuclease (RRP4);
Gene ID	23404
mRNA Refseq	NM_014285
Protein Refseq	NP_055100
MIM	602238
UniProt ID	Q13868

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