

EXOSC5 Protein, Human (His, Strep)

Cat. No.:	HY-P701878
Synonyms:	EXOSC5; Exosome complex component RRP46; Chronic myelogenous leukemia tumor antigen 28; Exosome component 5; Ribosomal RNA-processing protein 46; p12B
Species:	Human
Source:	E. coli
Accession:	Q9NQT4 (M1-S235)
Gene ID:	56915
Molecular Weight:	

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background

EXOSC5, a non-catalytic component of the RNA exosome complex, plays a crucial role in 3'→5' exoribonuclease activity, contributing to various cellular RNA processing and degradation processes. In the nucleus, the RNA exosome complex is implicated in the maturation of stable RNA species, elimination of RNA processing by-products, and degradation of non-coding transcripts, including antisense RNA and promoter-upstream transcripts. Additionally, it may be involved in Ig class switch recombination and/or somatic hypermutation. In the cytoplasm, EXOSC5 participates in general mRNA turnover, selectively degrading mRNAs with AU-rich elements and preventing translation of aberrant mRNAs in RNA surveillance pathways. As part of the catalytically inactive RNA exosome core (Exo-9), EXOSC5 contributes to ribonucleolysis by binding and presenting RNA. The complex is proposed to serve as a scaffold for catalytic subunits and associated proteins. Notably, EXOSC5 homodimerizes and interacts with various components of the RNA exosome complex, GTPBP1, and DDX17 in a context-dependent manner, highlighting its versatility in RNA-related processes.

Caution: Product has not been fully validated for medical applications. For research use only.

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