RNASE6 Protein, Human (HEK293, His)

Cat. No.:	HY-P71261
Synonyms:	Ribonuclease K6; RNase K6; RNASE6; RNS6
Species:	Human
Source:	HEK293
Accession:	Q93091 (W24-L150)
Gene ID:	6039
Molecular Weight:	Approximately 22.0 kDa

PROPERTIES

AA Sequence	W P K R L T K A H W F E I Q H I Q P S P L Q C N R A M S G I N N Y T Q H C K H Q N T F L H D S F Q N V A A V C D L L S I V C K N R R H N C H Q S S K P V N M T D C R L T S G K Y P Q C R Y S A A A Q Y K F F I V A C D P P Q K S D P P Y K L V P V H L D S I L
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 μm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, 1 mM DTT, 10% Glycerol, pH 7.5.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	N/A
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	The RNASE6 protein, functioning as a ribonuclease, exhibits a distinct preference for the pyrimidines uridine and cytosine. This ribonuclease demonstrates potent antibacterial activity against a broad spectrum of bacteria, including P. aeruginosa, A. baumanii, M. luteus, S. aureus, E. faecalis, E. faecium, S. saprophyticus, and E. coli. Notably, RNASE6's antibacterial effect is independent of its ribonuclease activity. The protein induces bacterial membrane disruption and promotes the agglutination of Gram-negative bacteria, contributing to its bactericidal properties. RNASE6's formidable antibacterial activity suggests its potential role in maintaining urinary tract sterility.

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

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