Proteins

# **Product** Data Sheet

## RNASEK Protein, Human (Cell-Free, His)

Cat. No.: HY-P702424

Synonyms: Ribonuclease kappa; V-type proton ATPase subunit f; V-ATPase subunit f

Species:

E. coli Cell-free Source: Accession: Q6P5S7 (M1-R137)

Gene ID: 440400 **Molecular Weight:** 21.5 kDa

### **PROPERTIES**

AA Sequence	
7 BY Dequence	MGWLRPGPRP LCPPARASWA FSHRFPSPLA PRRSPTPFFM
	ASLLCCGPKL AACGIVLSAW GVIMLIMLGI FFNVHSAVLI
	EDVPFTEKDF ENGPQNIYNL YEQVSYNCFI AAGLYLLLGG
	F S F C Q V R L N K R K E Y M V R
A	
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Tormutation	Lyophilized from a 0.22 μm filtered solution of ms/r b3-based buffer, 0.70 metalose, pm 6.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
	1 20/µg, determined by 2 12 method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O. For long term storage it is
	recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers
	could use it as reference.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is
	recommended to freeze aliquots at -20°C or -80°C for extended storage.

Room temperature in continental US; may vary elsewhere.

#### **DESCRIPTION**

Background

**Shipping** 

RNASEK Protein functions as an endoribonuclease with a preference for cleaving ApU and ApG phosphodiester bonds, demonstrating a lower rate of hydrolysis for UpU bonds. Beyond its ribonuclease activity, RNASEK plays a crucial regulatory role in the activity of vacuolar (H+)-ATPase (V-ATPase), responsible for maintaining intracellular compartment pH. Moreover, RNASEK is essential at an early stage of receptor-mediated endocytosis, influencing the intricate processes involved in cellular uptake. In the context of microbial infection, RNASEK emerges as a critical player in the early stages of both clathrinmediated and clathrin-independent endocytic uptake of various viruses, encompassing notable pathogens such as dengue, West Nile, Sindbis, Rift Valley Fever, influenza, and human rhinoviruses. The diverse functionality of RNASEK highlights its

significant contributions to cellular processes, ranging from RNA cleavage to the regulation of endocytosis, and positions it as a key factor in the cellular response to viral infections.

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA

Page 2 of 2 www.MedChemExpress.com