Proteins

Product Data Sheet



RNASET2 Protein, Human (HEK293, His)

Cat. No.: HY-P71015

Synonyms: Ribonuclease T2; 3.1.27.-; Ribonuclease 6; RNASE6PL

Species: Human **HEK293** Source:

O00584 (D25-H256) Accession:

Gene ID: 8635 38-45 kDa Molecular Weight:

PROPERTIES

AA :	Sequ	uenc	е
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DKRLRDNHEW KKLIMVQHWP ETVCEKIQND CRDPPDYWTI HGLWPDKSEG CNRSWPFNLE EIKDLLPEMR AYWPDVIHSF FGRSLELYRE PNRSRFWKHE WEKHGTCAAQ VDALNSQKKY LDLNSVLLKL GIKPSINYYQ V A D F K D A L A RVYGVIPKIQC LPPSQDEEVQ TIGQIELCLT KQDQQLQNCT EPGEQPSPKQ EVWLANGAAE SRGLRVCEDG PVFYPPKKT ΚН

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, 20% 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 RNASET2 protein functions as a ribonuclease, playing a vital role in the innate immune response by recognizing and degrading RNAs from microbial pathogens, subsequently sensed by TLR8. This ribonuclease exhibits a preferential cleavage of single-stranded RNA molecules between purine and uridine residues, a process crucial for the supply of catabolic uridine and the generation of purine-2',3'-cyclophosphate-terminated oligoribonucleotides. These RNase T2 degradation products, in turn, actively promote the RNA-dependent activation of TLR8. Beyond its role in immune response, RNASET2 also plays a

key role in the degradation of mitochondrial RNA and the processing of non-coding RNA imported from the cytosol into mitochondria. Additionally, it participates in the degradation of mitochondrion-associated cytosolic rRNAs, emphasizing its multifaceted involvement in RNA metabolism and immune regulation.

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

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