

Ribonuclease J/RnJ Protein, *Synechocystis* sp. (His-SUMO)

Cat. No.:	HY-P71470
Synonyms:	rnj; slr0551; Ribonuclease J; RNase J
Species:	Others
Source:	E. coli
Accession:	P54123 (1M-640S)
Gene ID:	23611654
Molecular Weight:	Approximately 86.4 kDa

PROPERTIES

AA Sequence

MAKNTQTQAL	KILPLGGLHE	IGKNTCVFEY	DDEILLLDAG
LAFTDDMHG	VNVVLPDMTY	LRENREKIKG	MVVTHGHEDH
IGGIAYHLKQ	FDIPIIYGPR	LAMALLRDKL	EEAGMLERTN
LQTVSPREMV	RLGKSFVVEF	IRNTHSIADS	YCLAIHPTLG
VVMHSGDFKI	DHTPIDGEFF	DLQKVAEYGE	KGVLCLLSDS
TNAEVPGITP	SEASVIPNLD	RVFSQAEGR	MVTTFASSVH
RVNIIILSLAQ	KHQRKVAVVG	RSMLNVIAHA	RKLGVIKCPD
NLFVPLKAAR	NLPDQQQLIL	TTGSQGEPLA	AMTRISNGEH
PQIKIRQGD	VVFSANPIPG	NTIAVVNTID	RLMMQGANVI
YGKHQGIHVS	GHASQEEHKM	LLALTRPKFF	VPVHGEHRML
VKHSQMAQAQ	GIPSENVIV	NNGDVIELTG	DRIRVAGQVP
SGIELVDQAG	IVHESTMAER	QQMAEDGLVT	VAAALSKTGT
LLAYPEVHCR	GVVMTIQPKL	LEELIVRTIE	NFLTERWSEF
THGSNGSTEV	SWNALQKELE	SSLQRLIKRE	LQSSPMVLLM
LQTDTPIELD	QVPQNVSTVS	ATSATPAPRK	KVVLTKTPEP
KVKAKPEKKV	VTTAEP SAQP	VSTTKVYRRS	RKRSTTSVSS

Biological Activity

The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.

Appearance

Lyophilized powder.

Formulation

Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.

Endotoxin Level

<1 EU/μg, determined by LAL method.

Reconstitution

It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH₂O.

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.

Shipping

Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

Ribonuclease J (RnJ) is an enzyme exhibiting 5'-3' exonuclease activity, with a potential additional function as an endonuclease. It plays a crucial role in the maturation processes of ribosomal RNA (rRNA) and is implicated in mRNA maturation and/or decay in certain organisms. This multifunctional RNase is integral to the intricate processes of RNA processing, contributing to the precise maturation and quality control mechanisms within the cellular environment.

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

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