

Poly(A) polymerase

Cat. No.:	HY-E70099
CAS No.:	9026-30-6
Target:	DNA/RNA Synthesis
Pathway:	Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

Poly(A) polymerase

BIOLOGICAL ACTIVITY

Description

Poly(A) polymerase catalyzes the incorporation of ATP into the RNA 3' end in the form of AMP, that is, adding a polyadenosine tail at the RNA 3' end. Poly(A) polymerase increases RNA stability and increases mRNA translation efficiency in eukaryotic cells. Poly(A) polymerase has high tailing efficiency and can add 20-200 A bases to the 3' end of RNA^{[1][2]}.

REFERENCES

[1]. Li W, et al. The novel poly(A) polymerase Star-PAP is a signal-regulated switch at the 3'-end of mRNAs. *Adv Biol Regul.* 2013 Jan;53(1):64-76.

[2]. Chen LS, et al. Chain termination and inhibition of mammalian poly(A) polymerase by modified ATP analogues. *Biochem Pharmacol.* 2010 Mar 1;79(5):669-77.

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

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