

Product Data Sheet

Product Name: Poly(A) polymerase

Cat. No.: GC81655

Chemical Properties

Cas. No. 9026-30-6

Formula

M.Wt

Solubility

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Poly(A) polymerase

Background

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].

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

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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In Vitro, Table. Package Contents Specification Type Components Volume Quantity 100 U A Poly(A) Polymerase (5U/μL) 100 U 1 100 U B 10 x Poly(A) Polymerase Buffer 1 mL 1 100 U C ATP (10 mM) 0.1 mL 1

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.

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