

DATA SHEET

1. Identification

Product name Poly(A) Polymerase, from *E. coli* (5 U/ μ L) 100U
Cat. No EZ0037

2. Description

Poly(A) Polymerase I from *Escherichia coli*, is a very active recombinant enzyme produced by a overproducer strain of *E.coli*. The enzyme adds a long tail of adenine nucleotides at the 3' end of messenger RNA using ATP as donor.

3. Protein information

Predicted MW 54 kDa
Purity \geq 95% as determined by SDS-polyacrylamide gels with Coomassie® blue staining.
Buffer Storage 1X Reaction Buffer: 20 mM Tris-HCl, 300 mM NaCl, 1 mM EDTA, 1 mM DTT, 0.1 % Triton®X-100, 50% Glycerol, (pH 7.5 at 25°C).
Biological activity One unit is defined as the amount of enzyme that will incorporate 1 nmol of AMP into RNA in a 20 μ l volume in 10 minutes at 37°C.

4. Gene Information

Synonyms PAP I
Official Symbol pcnB
Specie *Escherichia coli*
GenBank accession number NC_000913 (Range 157729..159126)
NCBI Protein RefSeq NP_414685.4
Protein Family polyA polymerase

5. Storage specifications

Store at -20°C. Avoid exposure to constant temperature changes.

6. Applications

- Labeling of RNA with ATP or cordycepin.
- Poly(A) tailing of RNA for cloning or affinity purification
- Enhances translation of RNA transferred into eukaryotic cells.



DATA SHEET

7. Further information

RUO This product is developed, designed and sold exclusively only for research purposes use. The product was not tested for use in diagnostics or for drug development, nor is it suitable for administration to humans or animals.

Disclaimer The information provided in this Data Sheet is correct to the best of our knowledge and belief at the date of publication. This information is intended only as a guide and should not be taken as a warranty or quality specification. Canvax Reagents S.L.U. shall not be held liable for any damage resulting from handling or from contact with the above product.

