

DATA SHEET

Version: 2
Revision date: 13/03/2023

1. Identification

Product name	mRNA 2'-O-MethylTransferase (50U/uL) 2000U
Cat. No	EZ0040

2. Description

Recombinant mRNA Cap 2'-O-Methyltransferase from Vaccinia virus is produced in *Escherichia coli*. It catalyzes the addition of a methyl group at the 2'-O position of the first nucleotide adjacent to the cap structure at the 5' end of the RNA. The enzyme utilizes SAM as a methyl donor to methylate capped RNA (Cap 0) resulting in a cap-1 structure.

3. Protein information

Predicted MW	39 kDa
Purity	≥ 95% as determined by SDS-polyacrylamide gels with Coomassie® blue staining.
Buffer	100 mM NaCl, 20 mM Tris-HCl (pH 8.0), 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, 0.1 % Triton®X-100.
Biological activity	One unit is defined as the amount of enzyme required to methylate 10 pmoles of 80 nt long capped RNA transcript in 1 hour at 37°C.

4. Gene Information

Synonyms	Poly(A) polymerase regulatory subunit Poly(A) polymerase small subunit (PAP-S) VP39
Official Symbol	PAPS
Specie	Bovine Vaccinia virus
Protein RefSeq	P07617
Protein Family	Methyl transferase

5. Storage specifications

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

6. Applications

2'-O-methylation of capped *in vitro* transcripts helps the RNA evade innate immune response *in vivo*.



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7. Further information

- Product** This product is developed, designed and sold exclusively only for research purposes use.
- Use** The product was not tested for use in diagnostics or for drug development, nor is it suitable
- Limitations** 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.

