

## Vaccinia virus capping enzyme

Cat. No.:	HY-E70080	
Target:	Biochemical Assay Reagents	
Pathway:	Others	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	Vaccinia virus capping enzyme

### BIOLOGICAL ACTIVITY

<b>Description</b>	Vaccinia virus capping enzyme is a transcription initiation factor. Vaccinia virus capping enzyme is a heterodimer of D1 (844 aa) and D12 (287 aa) polypeptides that executes all three steps in m7GpppRNA synthesis. Vaccinia virus capping enzyme has been used widely as a reagent for capping and cap-labeling RNAs in vitro <sup>[1][2]</sup> .
<b>In Vitro</b>	Vaccinia virus capping enzyme is involved both in the formation of a 5' cap structure and in termination of early transcription <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Vos JC, et al. Vaccinia virus capping enzyme is a transcription initiation factor. EMBO J. 1991 Sep;10(9):2553-8.

[2]. Kyrieleis OJ, et al. Crystal structure of vaccinia virus mRNA capping enzyme provides insights into the mechanism and evolution of the capping apparatus. Structure. 2014 Mar 4;22(3):452-65.

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

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