

KRISHZYME™ Enzymes for mRNA Vaccine

Vaccinia Capping Enzyme

This product is the Vaccinia Capping Enzyme recombinantly expressed in E. coli. Vaccinia Capping Enzyme can add the 7-methylguanosine cap (Cap0) to the 5' terminus of mRNA. This structure can improve the stability of mRNA, and is indispensable to subsequent transport and translation.

Cat No	Composition	Storage Temperature (⁰ C)	Product ID/Specification	
			KNB9002S (500U)	KNB9002L (2000U)
KNB9002-I	Vaccinia Capping Enzyme (10U/ul)	-20	50 ul	200 ul
KNB9002-II	Capping Buffer	-20	100 ul	1000 ul
KNB9002-III	S-adENosylmethionine (SAM 32mM)	-20	100 ul	1000 ul
KNB9002-IV	GTP	-20	50 ul	500 ul

10X Capping Buffer contains: 0.5M Tris-HCI (pH 8.0), 50mM KCI, 10mM

Product Properties

Optimal reaction temperature: 37°C

Definition of active unit: 1 active unit is defined as the amount of enzyme needed to incorporate 10 pmol of $(\alpha^{32}P)GTP$ into 80nt transcript within 1h at $37^{0}C$.

Quality Control

Purity ≥ 95%

Residual Host Cell DNA ≤ 100pg/mg

Residual Host Cell Protein ≤ 50 ppm

Residual Endotoxin ≤10 EU/mg

No residual RNase, Endonuclease, Exonuclease or Protease

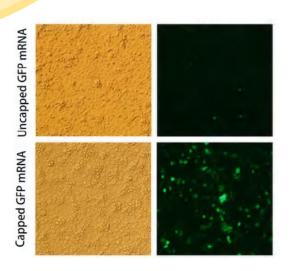
Germ-free, Pathogen-free.

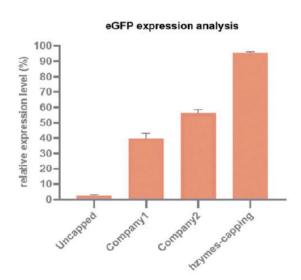


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Product Features

Capping rate as high as 95%; the 5'-Cap structure effectively promoting the in vivo expression of mRNA.





Product Information

Cat No	Composition	Specification
KNB9002	Vaccinia Capping Enzyme	500 U, 2000 U

Other KRISHZYME mRNA Vaccine Enzymes Available

Cat No	Product Particulars	
KNB9001	T7 RNA Polymerase	
KNB9003	mRNA Cap-2'-O-Methyltransferase	
KNB9004	Poly(A) Polymerase	
KNB9005	RNase inhibitor	
KNB9006	DNase I	
KNB9007	RNase III	
KNB9008	T4 RNA ligase	
KNB9009	Pyrophosphatase Inorganic	
KNB9010	Alkaline Phosphatase	
KNB9011	EcoR I	