

KRISHZYME™ Enzymes for mRNA Vaccine

RNase III

This product is the RNase III recombinantly expressed in E. coli. This specific exonuclease is capable of cutting double-stranded RNA (dsRNA) and generating 12-35 bp dsRNA fragments with protruding 5'-PO₄, 3'-OH, and 3' termini.

Cat No.	Composition	Storage Temperature (°C)	Product ID/Specification	
			KNB9007S (200 U)	KNB9007L (2000 U)
KNB9007-I	RNase III (2 U/ul)	-20	0.5 ml	5 ml
KNB9007-II	10X Reaction Buffer	-20	1.5 ml	15 ml
KNB9007-III	10X EDTA	-20	1 ml	10 ml
KNB9008-I7	10X MnCl ₂	-20	1 ml	10 ml

10X Reaction buffer contains 500mM Tris-HCl (pH7.5) 500mM NaCl and 10mM DTT.

Product Properties

Optimal Reaction Temperature: 37°C

Definition of Active Unit: 1 active unit is defined as the amount of enzyme needed to degrade 1 ug of dsRNA into siRNA in 20min at 37°C in a 50 ul reaction system

Quality Control

Purity ≥ 95%

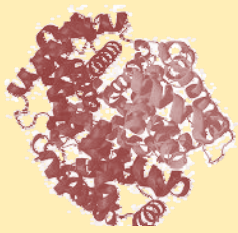
Residual Host Cell DNA ≤ 100pg/mg

Residual Host Cell Protein ≤ 50 ppm

Residual Endotoxin ≤ 10EU/mg

No Residual RNase, Endonuclease, Exonuclease or Protease

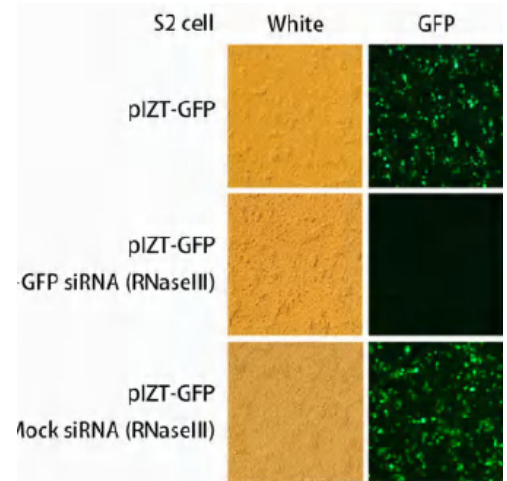
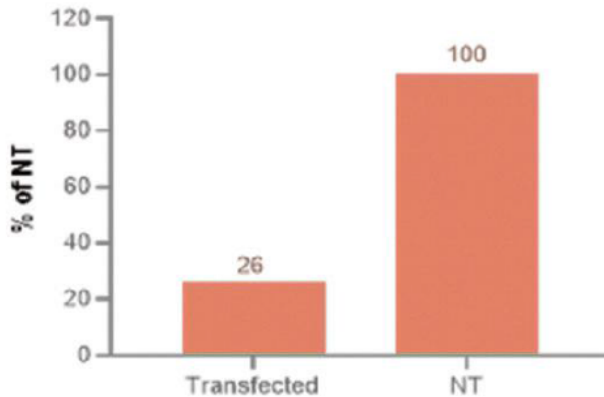
Germ-free, Pathogen-free.



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Product Features

Efficient production of siRNA; accurate interference with target gene expression.



Product Information

Cat No	Composition	Specification
KNB9007	RNase III	200 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