

Recombinant Vaccinia Virus H6R protein

Cat. No. H6R-323 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Vaccinia Virus H6R was expressed in E. coli.
Species	VACV
Source	E.coli
Description	Vaccinia virus Topoisomerase I is a type I eukaryotic topoisomerase that removes both positive and negative superhelical turns (also called right- and left-handed supercoils) from covalently closed DNA. The product of the reaction is a covalently closed, circular DNA with fewer positive or negative superhelical turns. DNA Topoisomerase I does not absolutely require Mg ²⁺ to function, although low concentrations of Mg ²⁺ may increase activity
Form	Vaccinia virus Topoisomerase I: 10,000 units/ml in 10 mM Tris-HCl, 1 mM DTT, 0.1 mM EDTA, 50% glycerol, pH 7.5 @ 25 centigrade
Unit Definition	One unit of Vaccinia virus DNA Topoisomerase I will convert 1 μ g of supercoiled DNA (Form I) to relaxed closed circular DNA (Form II) in 1 hour at 37 centigrade under standard assay conditions.
Applications	Studying the effects of supercoiling on transcription in vitro. Studying chromatin reconstitution in vitro. Determining the degree of supercoiling of naturally occurring DNA. Detecting mutant plasmids that differ in length by only one basepair. Increasing restriction endonuclease digestion of resistant DNA substrates by unwinding the DNA coils to expose restriction sites.

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Quality Control Test

The absence of exo- and endodeoxyribonucleases, non-specific DNase and RNase is confirmed by appropriate quality test.

Storage

Store at -20 centigrade

GENE INFORMATION**Gene Name**

H6R DNA topoisomerase type I [Vaccinia virus]

Official Symbol

H6R

Synonyms

DNA topoisomerase type I

Gene ID

3707560

mRNA Refseq**Protein Refseq****MIM****UniProt ID**

Q76ZS7

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