



For research use only

ISO9001

Endonuclease V (*E.coli*)

Product	Quantity	Cat. No.	Remarks
Endonuclease V (<i>E.coli</i>)	500 unit	EBT-3030	10 unit/ μ l

Description

Endonuclease V, a repair enzyme found in *E. coli*, is a 3'-endonuclease involved in DNA repair, which initiates removal of deaminated bases from damaged DNA. Endonuclease V recognizes DNA containing deoxyinosines, a deamination product of deoxyadenosine, on double-stranded DNA, single-stranded DNA containing abasic sites (ap) or urea, base mismatches, insertion/deletion mismatches, hairpin or unpaired loops, flaps and pseudo-Y structures. Endonuclease V requires accessory proteins to remove the damaged base. Endonuclease V is expressed and purified from *E.coli*.

Applications

- High-throughput methods for mutation research
- Studies in mutagenesis and DNA repair
- Cleavage of oligonucleotides containing deoxyinosines and a weaker affinity for oligonucleotides containing base mismatches

Reagents Supplied & Storage Condition

- Endonuclease V : 10 unit/ μ l, Store at -20°C.
- 10x Endonuclease V Reaction Buffer : Store at 4°C.

Reaction Condition

Endonuclease V in 1X Endonuclease V Reaction Buffer. Incubate at 37°C.

10x Reaction Buffer

500 mM Potassium Acetate, 200 mM Tris-acetate, 100 mM Magnesium Acetate, 10 mM DTT

Storage Buffer

10 mM Tris-HCl (pH 8.0), 300 mM NaCl, 1 mM DTT, 1 mM EDTA, 50% Glycerol, 0.15% Triton® X-100

Unit Definition

One unit is defined as the amount of enzyme required to cleave 1 pmol of a 34 mer oligonucleotide duplex containing a single deoxyinosine site in a total reaction volume of 10 μ l in 1 hour at 37°C.

QC Tests

Activity, exo and endonuclease activity test, SDS-PAGE purity, performance tests.



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