

Active Recombinant E.coli nei

Cat. No. nei-53E Lot. No. (See product label)

SPECIFICATION

Product Overview	An E. coli strain which carries the cloned Endonuclease VIII gene.
Species	E.coli
Source	E.coli
Description	E.coli Endonuclease VIII functions as both an N-glycosylase (by excising oxidative base lesions) and an AP lyase (by subsequently cleaving the phosphodiester backbone), leaving terminal phosphates at the 5' and 3' ends. Damaged bases removed by Endonuclease VIII include: urea, 5, 6- dihydroxythymine, thymine glycol, 5-hydroxy-5- methylhydanton, uracil glycol, 6-hydroxy-5, 6- dihydrothymine and methyltartronylurea.
Bio-activity	770,000 U/mg
Molecular Mass	29,845 Daltons
Purity	>99% by SDS-PAGE
Unit Definition	One unit is defined as the amount of enzyme required to cleave 1 pmol of an oligonucleotide duplex containing a single AP site in 1 hour at 37°C.
Storage	-25 to -15°C
Concentration	10,000 U/mL

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Storage Buffer

Supplied in: 10mM Tris-HCL, 250 mM NaCl, 0.1mM EDTA, 50% glycerol pH 8.0 @ 25°C. Supplied with: 10X Endonuclease VIII Buffer: 100mM Tris-HCl, 750mM NaCl, 10mM EDTA pH 8.0 @ 25°C.

GENE INFORMATION

Gene Name	nei endonuclease VIII [<i>Escherichia coli</i> str. K-12 substr. W3110]
Official Symbol	nei
Synonyms	nei; endonuclease VIII; YP_488994.1; 5-formyluracil/5-hydroxymethyluracil DNA glycosylase~ECK0703:JW0704:b0714
Gene ID	12930934
Protein Refseq	YP_488994
UniProt ID	AP_001352
Pathway	Base excision repair

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