For research use only

ISO9001

Nt.Fok I

Product	Quantity	Cat. No.	Remarks
Nt.Fok I	500 unit	EBR-1302	5 unit/㎕

Description

Nt.Fok I is a nick endonuclease which cleaves only one strand at the 3' (N9) of specific sequence as follows. This enzyme is engineered by chimeric fusion of the restriction domain of Nt.BstNB I and the DNA recognition part of Fok I.

5' - - GGATGN(9)▼NNNN - - 3'
3' - - CCTACN(9)NNNN - - 5'

Source

Recombinant fusion gene of DNA recognition domain of Fok I and the cleavage domain of Nt.BstNB I is expressed in *E.coli*.

Application

- DNA nicking

Reaction Condition

1X reaction buffer, incubate at 37°C.

10x Reaction Buffer

100 mM Tris-HCl (pH 7.9), 500 mM NaCl, 100 mM $MgCl_2$, 10 mM DTT

Storage Buffer

10 mM Tris-HCl (pH 7.4), 50 mM KCl, 0.1 mM EDTA, 1 mM DTT, 200 μg/ml BSA, 50% Glycerol

Unit Definition

One unit is defined as the amount of enzyme required to convert 1 μg of supercoiled DNA to open circular form in 1 hour at 37°C in a total reaction volume of 50 μl.

Heat Inactivation

80°C for 20 min

QC Tests

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

㈜ 엘피스바이오텍
www.elpisbio.com
(302-854) 123-12 Chunglim-Dong, Seo-Gu, Taejeon, Korea
Tel: +82-42-581-8448. Fax: +82-42-581-8449

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