Creative Enzymes®

deoxyribonuclease IV

Cat. No. EXWM-3572

Lot. No. (See product label)

Introduction

Description	The enzyme is an apurinic/apyrimidinic (AP) site endonuclease that primes DNA repair synthesis at AP sites. It specifically cleaves the DNA backbone at AP sites and also removes 3' DNA-blocking groups such as 3' phosphates, 3' phosphoglycolates, and 3' α,β-unsaturated aldehydes that arise from oxidative base damage and the activity of combined glycosylase/lyase enzymes. It is also the only known repair enzyme that is able to cleave the DNA backbone 5' of the oxidative lesion α-deoxyadenosine. The enzyme has a strong preference for single-stranded DNA.
Synonyms	deoxyribonuclease IV (phage-T4-induced) (misleading); endodeoxyribonuclease IV (phage T4-induced) (misleading); E. coli endonuclease IV; endodeoxyribonuclease (misleading); redoxyendonuclease; deoxriboendonuclease (misleading); endonuclease II; endonuclease IV; DNA-adenine-transferase; nfo (gene name)

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 3.1.21.2
CAS No.	63363-78-0
Reaction	Endonucleolytic cleavage of ssDNA at apurinic/apyrimidinic sites to 5'-phosphooligonucleotide end-products
Notes	This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

Storage and Shipping Information

Storage	Store it at +4 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.