Creative Enzymes®

type III site-specific deoxyribonuclease

Cat. No. EXWM-3575

Lot. No. (See product label)

Introduction

Description	This is a large group of enzymes which, together with those now listed as EC 3.1.21.3 (type 1 site-specific deoxyribonuclease) and EC 3.1.21.4 (type II site-specific deoxyribonuclease), were previously listed separately in sub-subclasses EC 3.1.23 and EC 3.1.24. They have an absolute requirement for ATP but do not hydrolyse it; S-adenosy-L-methionine stimulates the reaction, but is not absolutely required. They recognize specific, short DNA sequences and cleave a short distance away from the recognition sequence. These enzymes exist as complexes with enzymes of similar specificity listed under EC 2.1.1.72 [site-specific DNA-methyltransferase (adenine-specific)] or EC 2.1.1.73
Synonyms	type III restriction enzyme; restriction-modification system

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 3.1.21.5
CAS No.	9075-08-5
Reaction	Endonucleolytic cleavage of DNA to give specific double-stranded fragments with terminal 5'-phosphates
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 ℃.