Creative Enzymes®

DNA ligase (NAD+)

Cat. No. EXWM-5821

Lot. No. (See product label)

Introduction

Description	Catalyses the formation of a phosphodiester at the site of a single-strand break in duplex DNA. RNA can also act as substrate, to some extent. cf. EC 6.5.1.1, DNA ligase (ATP), EC 6.5.1.6, DNA ligase (ATP or NAD+), and EC 6.5.1.7, DNA ligase (ATP, ADP or GTP).
Synonyms	polydeoxyribonucleotide synthase (NAD+); polynucleotide ligase (NAD+); DNA repair enzyme (ambiguous); DNA joinase (ambiguous); polynucleotide synthetase (nicotinamide adenine dinucleotide); deoxyribonucleic-joining enzyme (ambiguous); deoxyribonucleic ligase (ambiguous); deoxyribonucleic repair enzyme (ambiguous); deoxyribonucleic joinase (ambiguous); DNA ligase (ambiguous); deoxyribonucleate ligase (ambiguous); polynucleotide ligase (ambiguous); deoxyribonucleic acid ligase (ambiguous); polynucleotide synthetase (ambiguous); deoxyribonucleic acid joinase (ambiguous); DNA-joining enzyme (ambiguous); polynucleotide ligase (nicotinamide adenine dinucleotide)

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 6.5.1.2
CAS No.	37259-52-2
Reaction	NAD+ + (deoxyribonucleotide)n + (deoxyribonucleotide)m = AMP + β-nicotinamide D-nucleotide + (deoxyribonucleotide)n+m
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 ℃.