Creative Enzymes®

DNA ligase (ATP or NAD+)

Cat. No. EXWM-5825

Lot. No. (See product label)

Introduction

Description	The enzymes from the archaea Thermococcus fumicolans and Thermococcus onnurineus show high activity with either ATP or NAD+, and significantly lower activity with TTP, GTP, and CTP. Different from EC 6.5.1.1, DNA ligase (ATP), EC 6.5.1.2, DNA ligase (NAD+) and EC 6.5.1.7, DNA ligase (ATP, ADP or GTP).

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 6.5.1.6
Reaction	(1) ATP + (deoxyribonucleotide)n + (deoxyribonucleotide)m = AMP + diphosphate + (deoxyribonucleotide)n+m; (2) NAD+ + (deoxyribonucleotide)n + (deoxyribonucleotide)m = AMP + β-nicotinamide D-ribonucleotide + (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 ℃.