

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 °C for short term. For long term storage, store it at -20 °C~-80 °C.