

## 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<sup>+</sup>, 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<sup>+</sup>) 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)<sub>n</sub> + (deoxyribonucleotide)<sub>m</sub> = AMP + diphosphate + (deoxyribonucleotide)<sub>n+m</sub>; (2) NAD<sup>+</sup> + (deoxyribonucleotide)<sub>n</sub> + (deoxyribonucleotide)<sub>m</sub> = AMP + β-nicotinamide D-ribonucleotide + (deoxyribonucleotide)<sub>n+m</sub>

**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.