

DNA ligase (ATP, ADP or GTP)

Cat. No. EXWM-5826

Lot. No. (See product label)

Introduction

Description The enzymes from the archaea *Hyperthermus butylicus* and *Sulfolobococcus zilligii* are active with ATP, ADP or GTP. They show no activity with NAD⁺. Different from EC 6.5.1.1, DNA ligase (ATP), which is specific for ATP, and EC 6.5.1.6, DNA ligase (ATP or NAD⁺) which can utilize either ATP or NAD⁺.

Product Information

Form Liquid or lyophilized powder

EC Number EC 6.5.1.7

Reaction (1) ATP + (deoxyribonucleotide)_n + (deoxyribonucleotide)_m = AMP + diphosphate + (deoxyribonucleotide)_{n+m}; (2) ADP + (deoxyribonucleotide)_n + (deoxyribonucleotide)_m = AMP + phosphate + (deoxyribonucleotide)_{n+m}; (3) GTP + (deoxyribonucleotide)_n + (deoxyribonucleotide)_m = GMP + diphosphate + (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.