

## ATP-dependent T4 RNA ligase (T4 RNA Ligase I)

Cat. No. COV-015

Lot. No. (See product label)

### Introduction

#### Description

This product is an ATP-dependent T4 RNA ligase (T4 RNA Ligase I) recombinantly expressed by E. coli. This enzyme catalyzes the formation of phosphodiester bonds between oligonucleotides, single-stranded RNA and DNA intermolecular/ intra-molecular 5'-PO<sub>4</sub> and 3'-OH.

### Product Information

#### Source

E. coli

#### Form

Clear liquid

#### Purity

Purity ≥ 95%, host DNA residue ≤100 pg/mg, host protein residue ≤ 50 ppm, Endotoxin residue ≤10 EU/mg, no RNase, Endonuclease, Exonuclease, Protease residue, Sterile, Mycoplasma free.

#### Activity

10 U/μL

#### Buffer

50 mM KCl, 10 mM Tris-HCl, 1 mM DTT, 0.1mM EDTA, 50 % Glycerol, (pH 7.4 @ 25°C)

#### Unit Definition

One unit is defined as the amount of enzyme required to convert 1 nanomole of 5'-[<sup>32</sup>P] rA16 into a phosphatase-resistant form in 30 minutes at 37°C.

### Storage and Shipping Information

#### Storage

at -25 to -15 °C (Avoid repeated freeze-thaw cycles)