Ферменты для синтеза РНК-лигазы

Технические характеристики

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T4 RNA Ligase 1

Catalog No.: ON-081

Product description: T4 RNA Ligase 1 is an ATP-dependent ligase, active on a broad range of substrates including RNA, DNA, oligoribonucleotides,oligodeoxynucleotides, as well as numerous nucleotide derivatives. The enzyme catalyzes the formation of a phosphodiester bond between a 5'-phosphoryl-terminated nucleic acid donor to a 3'-hydroxyl-terminated nucleic acid acceptor in a template-independent manner.

Concentration and Size: 10U/μL

Unit Definition: One unit is defined as the amount of enzyme required to ligate 50% of 0.4μg of an equimolar mix of two single stranded 23 base RNA oligonucleotides (one 5'-phosphorylated) in a total volume of 20μL following a 30 minute incubation at 37°C.

Storage Buffer: 10mM Tris-HCl, 0.1mM EDTA, 50mM KCl, 1mM DTT, 50%(v/v)glycerol, pH7.5@25℃.

T4 RNA Ligase 2

Catalog No.: ON-544-C010

Product description: T4 RNA Ligase 2, also known as T4 Rnl2, has both intermolecular and intramolecular RNA strand joining activity. T4 RNA Ligase 2 is much more active joining nicks on double stranded RNA than on joining the ends of single stranded RNA. The enzyme requires an adjacent 5' phosphate and 3' OH for ligation. The enzyme can also ligate the 3' OH of RNA to the 5' phosphate of DNA in a double stranded structure.

Concentration and Size: 10U/μL

Unit Definition: One unit is defined as the amount of enzyme required to ligate 50% of 0.8μg of an equimolar mix of a 28-mer and 18-mer RNAs in a total reaction volume of 20μL in 30 minutes at 37℃.

Storage Buffer: 10mM Tris-HCl, 50mM KCl, 35mM $(NH_4)_2SO_4$, 0.1mM DTT, 0.1mM EDTA, 50%(v/v) Glycerol, pH7.5@25℃.

Pyrophosphatase Inorganic (yeast)

Catalog No.: ON-025

Product description: PPase is prepared from an E. coli strain containing Saccharomyces cerevisiae ppa gene. It is a homodimer consisting of two equal subunits of molecular weight 32-35 kDa. The enzyme catalyzes the hydrolysis of inorganic pyrophosphate into two orthophosphates.

Source: Recombinant *E.coli*

Concentration and Size: 0.1U/μL

Unit Definition: One unit is the amount of enzyme that will generate 1 μmol of phosphate per minute from inorganic pyrophosphate under standard reaction conditions (a 10 minute reaction at 25℃ in 100mM Tris-HCl, [pH 7.2], 2mM $MgCl_2$ and 2mM PPi in a reaction volume of 0.5 mL)

Storage Buffer: 20 mM Tris-HCl PH8.0, 1 mM DTT, 0.1 mM EDTA, 50% Glycerol.

Pyrophosphatase Inorganic (yeast) (0.1U/ul)

Grade: GMP

Catalog No.: ON-025-G

Product description: PPase is prepared from an E. coli strain containing Saccharomyces cerevisiae ppa gene. It is a homodimer consisting of two equal subunits of molecular weight 32-35 kDa. The enzyme catalyzes the hydrolysis of inorganic pyrophosphate into two orthophosphates.

Source: Recombinant *E.coli*

Concentration and Size: 0.1U/μL

Unit Definition: One unit is the amount of enzyme that will generate 1 μmol of phosphate per minute from inorganic pyrophosphate under standard reaction conditions (a 10 minute reaction at 25℃ in 100mM Tris-HCl, [pH 7.2], 2mM $MgCl_2$ and 2mM PPi in a reaction volume of 0.5 mL)

Storage Buffer: 20 mM Tris-HCl PH8.0, 1 mM DTT, 0.1 mM EDTA, 50% Glycerol.

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