Creative Enzymes®

# triphosphoribosyl-dephospho-CoA synthase

*Cat. No. EXWM-2682*

*Lot. No.* (See product label)

## Introduction

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| ***Description*** | ATP cannot be replaced by GTP, CTP, UTP, ADP or AMP. The reaction involves the formation of a new α (1''→2') glycosidic bond between the two ribosyl moieties, with concomitant displacement of the adenine moiety of ATP. The 2'-(5-triphosphoribosyl)-3'-dephospho-CoA produced can be transferred by EC 2.7.7.61, citrate lyase holo-[acyl-carrier protein] synthase, to the apo-acyl-carrier protein subunit (γ-subunit) of EC 4.1.3.6, citrate (pro-3S) lyase, thus converting it from an apo-enzyme into a holo-enzyme. Alternatively, it can be transferred to the apo-ACP subunit of malonate decarboxylase by the action of EC 2.7.7.66, malonate decarboxylase holo-[acyl-carrier protein] synthase. |
| ***Synonyms*** | 2'-(5''-triphosphoribosyl)-3-dephospho-CoA synthase; ATP:dephospho-CoA 5-triphosphoribosyl transferase; CitG; ATP:dephospho-CoA 5'-triphosphoribosyl transferase; MdcB; ATP:3-dephospho-CoA 5''-triphosphoribosyltransferase; MadG |

## Product Information

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| ***Form*** | Liquid or lyophilized powder |
| ***EC Number*** | EC 2.4.2.52 |
| ***CAS No.*** | 313345-38-9 |
| ***Reaction*** | ATP + 3'-dephospho-CoA = 2'-(5-triphospho-α-D-ribosyl)-3'-dephospho-CoA + adenine |
| ***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

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| ***Storage*** | Store it at +4 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃. |