Creative Enzymes®

triphosphoribosyl-dephospho-CoA synthase

Cat. No. EXWM-2682

Lot. No. (See product label)

Introduction

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

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

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