

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 $\text{ATP} + 3'\text{-dephospho-CoA} = 2'\text{-(5-triphospho-}\alpha\text{-D-ribosyl)-3'-dephospho-CoA} + \text{adenine}$

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 °C for short term. For long term storage, store it at -20 °C~-80 °C.