

adenosylcobinamide-GDP ribazoletransferase

Cat. No. EXWM-3325

Lot. No. (See product label)

Introduction

Description In Salmonella typhimurium LT2, under anaerobic conditions, CobU (EC 2.7.7.62 and

EC 2.7.1.156), CobT (EC 2.4.2.21), CobC (EC 3.1.3.73) and CobS (EC 2.7.8.26) catalyse reactions in the nucleotide loop assembly pathway, which convert

adenosylcobinamide (AdoCbi) into adenosylcobalamin (AdoCbl). CobT and CobC are

involved in 5,6-dimethylbenzimidazole activation whereby 5,6-

dimethylbenzimidazole is converted to its riboside, α -ribazole. The second branch of the nucleotide loop assembly pathway is the cobinamide activation branch where AdoCbi or adenosylcobinamide-phosphate is converted to the activated intermediate AdoCbi-GDP by the bifunctional enzyme Cob U. CobS catalyses the final step in adenosylcobalamin biosynthesis, which is the condensation of AdoCbi-

GDP with α -ribazole to yield adenosylcobalamin.

Synonyms CobS; cobalamin synthase; cobalamin-5'-phosphate synthase; cobalamin (5'-

phosphate) synthase

Product Information

Form Liquid or lyophilized powder

EC Number EC 2.7.8.26

CAS No. 137672-85-6

Reaction (1) adenosylcobinamide-GDP + α -ribazole = GMP + adenosylcobalamin;

(2)adenosylcobinamide-GDP + α -ribazole 5'-phosphate = GMP +

adenosylcobalamin 5'-phosphate

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.

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