

preQ1 synthase

Cat. No. EXWM-1606

Lot. No. (See product label)

Introduction

Description The reaction occurs in the reverse direction. This enzyme catalyses one of the early

steps in the synthesis of queuosine (Q-tRNA), and is followed by the action of EC 2.4.2.29, queuine tRNA-ribosyltransferase. Queuosine is found in the wobble position of tRNAGUN in Eukarya and Bacteria and is thought to be involved in translational modulation. The enzyme is not a GTP cyclohydrolase, as was thought

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previously based on sequence-homology studies.

Synonyms YkvM; QueF; preQ0 reductase; preQ0 oxidoreductase; 7-cyano-7-deazaguanine

reductase; queuine synthase (incorrect as queuine is not the product); queuine:NADP+ oxidoreductase (incorrect as queuine is not the product)

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.7.1.13

CAS No. 1256460-80-6

Reaction 7-aminomethyl-7-carbaguanine + 2 NADP+ = 7-cyano-7-carbaguanine + 2 NADPH

+ 2 H+

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

Store it at +4 °C for short term. For long term storage, store it at -20 °C∼-80 °C.

Tel: 1-631-562-8517 1-516-512-3133 **Email:** info@creative-enzymes.com