

2-polyprenyl-6-hydroxyphenol methylase

Cat. No. EXWM-1825

Lot. No. (See product label)

Introduction

Description UbiG catalyses both methylation steps in ubiquinone biosynthesis in *Escherichia coli*. The second methylation is classified as EC 2.1.1.64 (3-demethylubiquinol 3-O-methyltransferase). In eukaryotes Coq3 catalyses the two methylation steps in ubiquinone biosynthesis. However, while the second methylation is common to both enzymes, the first methylation by Coq3 occurs at a different position within the pathway, and thus involves a different substrate and is classified as EC 2.1.1.114 (polyprenyldihydroxybenzoate methyltransferase). The substrate of the eukaryotic enzyme (3,4-dihydroxy-5-all-trans-polyprenylbenzoate) differs by an additional carboxylate moiety.

Synonyms ubiG (gene name, ambiguous); ubiG methyltransferase (ambiguous); 2-octaprenyl-6-hydroxyphenol methylase

Product Information

Form Liquid or lyophilized powder

EC Number EC 2.1.1.222

Reaction S-adenosyl-L-methionine + 3-(all-trans-polyprenyl)benzene-1,2-diol = S-adenosyl-L-homocysteine + 2-methoxy-6-(all-trans-polyprenyl)phenol

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.