

aurachin C monooxygenase/isomerase

Cat. No. EXWM-0825

Lot. No. (See product label)

Introduction

Description The aurachin C monooxygenase from the bacterium Stigmatella aurantiaca accepts both NADH and

NADPH as cofactor, but has a preference for NADH. It catalyses the initial steps in the conversion of aurachin C to aurachin B. The FAD-dependent monooxygenase catalyses the epoxidation of the C2-C3 double bond of aurachin C, which is followed by a semipinacol rearrangement, causing migration of the

farnesyl group from C3 to C4.

Synonyms auaG (gene name); aurachin C monooxygenase

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.14.13.222

Reaction aurachin C + NAD(P)H + H+ + O2 = 4-hydroxy-2-methyl-3-oxo-4-[(2E,6E)-farnesyl]-3,4-dihydroquinoline

1-oxide + NAD(P) + H2O (overall reaction); (1a) aurachin C + NAD(P) + H+ + O2 = 2-hydroxy-1a-methyl-7a-[(2E,6E)-farnesyl]-1a,2-dihydrooxireno[2,3-b]quinolin-7(7aH)-one + NAD(P)+ + H2O; (1b) 2-hydroxy-1a-methyl-7a-[(2E,6E)-farnesyl]-1a,2-dihydrooxireno[2,3-b]quinolin-7(7aH)-one = 4-hydroxy-2-methyl-7a-[(2E,6E)-farnesyl]-1a,2-dihydrooxireno[2,3-b]quinolin-7(7aH)-one = 4-hydroxy-2-methyl-7a-[(2E,6E)-farnesyl]-1a,2-dihydroxy-2-methyl-7a-[(2E,6E)-farnesyl]-1a,2-dihydroxy-2-methyl-7a-[(2E,6E)-farnesyl]-1a,2-dihydroxy-2-methyl-7a-[(2E,6E)-farnesyl]-1a,2-dihydroxy-2-methyl-7a-[(2E,6E)-farnesyl]-1a,2-dihydroxy-2-methyl-7a-[(2E,6E)-farnesyl]-1a,2-dihydroxy-2-methyl-7a-[(2E,6E)-farnesyl]-1a,2-dihydroxy-2-methyl-7a-[(2E,6E)-farnesyl]-1a,2-dihydroxy-2-methyl-7a-[(2E,6E)-farnesyl]-1a,2-dihydroxy-2-methyl-7a-[(2E,6E)-farnesyl]-1a,2-dihydroxy-2-methyl-7a-[(2E,6E)-farnesyl]-1a,2-dihydroxy-2-methyl-7a-[(2E,6E)-farnesyl]-1a,2-dihydroxy-2-methyl-7a-[(2E,6E)-farnesyl]-1a,2-dihydroxy-2-methyl-7a-[(2E,6E)-farnesyl]-1a,2-dihydroxy-2-methyl-7a-[(2E,6E)-farnesyl]-1a,2-dihydroxy-2-methyl-7a-[(2E,6E)-farnesyl]-1a,2-dihydroxy-2-methyl-7a-[(2E,6E)-farnesyl]-1a,2-dihydroxy-2-methyl-7a-[(2E,6E)-farnesyl]-1a,2-dihydroxy-2-methyl-7a-[(2E,6E)-farnesyl]-1

methyl-3-oxo-4-[(2E,6E)-farnesyl]-3,4-dihydroquinoline 1-oxide

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.

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