

alkene monooxygenase

Cat. No. EXWM-0875

Lot. No. (See product label)

Introduction

Description This bacterial binuclear non-heme iron enzyme is a multicomponent enzyme

complex comprising an oxygenase, a reductase, and a Rieske-type ferredoxin. The enzyme from the bacterium Xanthobacter sp. strain Py2 contains an additional small protein of unknown function that is essential for activity. In general, the enzyme oxygenates C2 to C6 aliphatic alkenes, although enzymes from different organisms show different substrate range. With propene as substrate, the

stereospecifity of the epoxypropane formed is 95% (R) and 5% (S).

Synonyms alkene epoxygenase; etnABCD (gene names); amoABCDE (gene names)

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.14.13.69

CAS No. 63439-50-9

Reaction propene + NADH + H+ + O2 = 1,2-epoxypropane + NAD+ + H2O

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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