

## benzoyl-CoA 2,3-epoxidase

Cat. No. EXWM-0809

Lot. No. (See product label)

## Introduction

**Description** The enzyme is involved in aerobic benzoate metabolism in Azoarcus evansii. BoxB

functions as the oxygenase part of benzoyl-CoA oxygenase in conjunction with BoxA, the reductase component, which upon binding of benzoyl-CoA, transfers two electrons to the ring in the course of monooxygenation. BoxA is a homodimeric 46

1/1

kDa iron-sulfur-flavoprotein (FAD), BoxB is a monomeric iron-protein.

**Synonyms** benzoyl-CoA dioxygenase/reductase (incorrect); BoxBA; BoxA/BoxB system;

benzoyl-CoA 2,3-dioxygenase (incorrect)

## **Product Information**

**Form** Liquid or lyophilized powder

**EC Number** EC 1.14.13.208

**Reaction** benzoyl-CoA + NADPH + H+ + O2 = 2,3-epoxy-2,3-dihydrobenzoyl-CoA + NADP+

+ 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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