

## 2,5-diketocamphane 1,2-monooxygenase

Cat. No. EXWM-0762

Lot. No. (See product label)

## Introduction

**Description** A flavoprotein (FMN) which requires Fe2+. A Baeyer-Villiger monooxygenase

isolated from camphor-grown strains of Pseudomonas putida and encoded on the cam plasmid. Involved in the degradation of (+)-camphor. Requires a dedicated NADH-FMN reductase [cf. EC 1.5.1.42, FMN reductase (NADH)]. Can accept several bicyclic ketones including (+)- and (-)-camphor and adamantanone. The product spontaneously converts to [(1R)-2,2,3-trimethyl-5-oxocyclopent-3-enyl]acetate.

**Synonyms** 2,5-diketocamphane lactonizing enzyme; ketolactonase I (ambiguous); 2,5-

diketocamphane 1,2-monooxygenase oxygenating component; 2,5-DKCMO; camP

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(gene name); camphor 1,2-monooxygenase; camphor ketolactonase I

## **Product Information**

**Form** Liquid or lyophilized powder

**EC Number** EC 1.14.13.162

**Reaction** (+)-bornane-2,5-dione + O2 + NADH + H+ = (+)-5-oxo-1,2-campholide + NAD+ +

H20

**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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