

## cyclohexanone monooxygenase

Cat. No. EXWM-0822

Lot. No. (See product label)

### Introduction

**Description** A flavoprotein (FAD). In the catalytic mechanism of this enzyme, the nucleophilic species that attacks the carbonyl group is a peroxyflavin intermediate that is generated by reaction of the enzyme-bound flavin cofactor with NAD(P)H and oxygen. This enzyme is able to catalyse a wide range of oxidative reactions, including enantioselective Baeyer-Villiger reactions, sulfoxidations, amine oxidations and epoxidations.

**Synonyms** cyclohexanone 1,2-monooxygenase; cyclohexanone oxygenase; cyclohexanone:NADPH:oxygen oxidoreductase (6-hydroxylating, 1,2-lactonizing)

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 1.14.13.22

**CAS No.** 52037-90-8

**Reaction** cyclohexanone + NADPH + H<sup>+</sup> + O<sub>2</sub> = hexano-6-lactone + NADP<sup>+</sup> + H<sub>2</sub>O

**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.