Cyclohexanone monooxygenase (CHMO)

Cat. No. CHMO-39 **Lot. No.** (See product label)

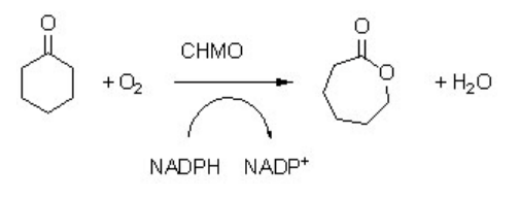
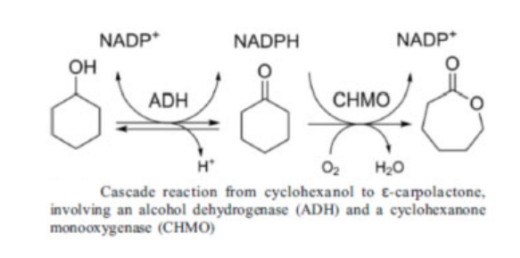
SPECIFICATION

Product Overview	
Description	CHMO (Cyclohexanone monooxygenase): a Baeyer Villiger monooxygenase (BVMO) with cyclohexanone as the substrate, can oxidize cyclohexanone to cyclohexanol using oxygen. It is a kind of flavin dependent enzyme. The oxidized flavin is reduced to flavin through the cycle of reducing coenzyme II (NADPH) for the next oxidation. Therefore, cofactor NADPH is necessary in flavin cycle.
Applications	1. Normally, the reaction system should include substrate, buffer solution, enzyme, coenzyme and coenzyme regeneration system (e.g. glucose and glucose dehydrogenase). 2. CHMO should be added last into reaction system, after the pH and temperature been adjusted to the reaction condition.
Notes	Never contact with extreme conditions such as: high temperature, high/low pH and high concentration organic solvent.
Storage	Keep 2 years below -20 centigrade.
Advantages	1. High substrate specificity. 2. Strong chiral selectivity. 3. High conversion. 4. Less by-products. 5. Mild reaction conditions. 6. Environmentally friendly.

GENE INFORMATION

Official Symbol	CHMO

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Synonyms	Cyclohexanone monooxygenase; CHMO
Catalytic reaction type	
Application Examples	 Cascade reaction from cyclohexanol to ε-carpolactone, involving an alcohol dehydrogenase (ADH) and a cyclohexanone monooxygenase (CHMO) Synthesis of cyclohexanol from cyclohexanol

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