

cyclohexanone monooxygenase

oxidoreductase (6-hydroxylating, 1,2-lactonizing)

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

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.14.13.22
CAS No.	52037-90-8
Reaction	cyclohexanone + NADPH + H+ + O2 = hexano-6-lactone + 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.