Creative Enzymes®

cholesterol 25-hydroxylase

Cat. No. EXWM-1049

Lot. No. (See product label)

Introduction

Description	Unlike most other sterol hydroxylases, this enzyme is not a cytochrome P-450. Instead, it uses diiron cofactors to catalyse the hydroxylation of hydrophobic substrates. The diiron cofactor can be either Fe-O-Fe or Fe-OH-Fe and is bound to the enzyme through interactions with clustered histidine or glutamate residues. In cell cultures, this enzyme down-regulates cholesterol synthesis and the processing of sterol regulatory element binding proteins (SREBPs).
Synonyms	cholesterol 25-monooxygenase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.14.99.38
CAS No.	60202-07-5
Reaction	cholesterol + AH2 + O2 = 25-hydroxycholesterol + A + 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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.