

## 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 + AH<sub>2</sub> + O<sub>2</sub> = 25-hydroxycholesterol + A + 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.