

## ethylbenzene hydroxylase

Cat. No. EXWM-1102

Lot. No. (See product label)

### Introduction

#### Description

Involved in the anaerobic catabolism of ethylbenzene by denitrifying bacteria. Ethylbenzene is the preferred substrate; the enzyme from some strains oxidizes propylbenzene, 1-ethyl-4-fluorobenzene, 3-methylpent-2-ene and ethylenecyclohexane. Toluene is not oxidized. p-Benzoquinone or ferrocenium can act as electron acceptor. Contains molybdopterin, [4Fe-4S] clusters and heme b.

#### Synonyms

ethylbenzene dehydrogenase; ethylbenzene:(acceptor) oxidoreductase

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 1.17.99.2

#### CAS No.

372947-56-3

#### Reaction

ethylbenzene + H<sub>2</sub>O + acceptor = (S)-1-phenylethanol + reduced acceptor

#### 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.