Creative Enzymes®

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 ethylidenecyclohexane. 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 + H2O + 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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.