

phenol 2-monooxygenase (FADH2)

Cat. No. EXWM-0917

Lot. No. (See product label)

Introduction

Description

The enzyme catalyses the ortho-hydroxylation of simple phenols into the corresponding catechols. It accepts 4-methylphenol, 4-chlorophenol, and 4-fluorophenol as well as 4-nitrophenol, 3-nitrophenol, and resorcinol. The enzyme is part of a two-component system that also includes an NADH-dependent flavin reductase. It is strictly dependent on FADH2 and does not accept FMNH2. cf. EC 1.14.13.7, phenol 2-monooxygenase (NADPH).

Synonyms

pheA1 (gene name)

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.14.14.20

Reaction

phenol + FADH2 + O2 = catechol + FAD + 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.