Creative Enzymes®

2-aminophenol 1,6-dioxygenase

Cat. No. EXWM-0594

Lot. No. (See product label)

Introduction

Description	The enzyme, a member of the nonheme-iron(II)-dependent dioxygenase family, is an extradiol-type dioxygenase that utilizes a non-heme ferrous iron to cleave the aromatic ring at the meta position (relative to the hydroxyl substituent). The enzyme also has some activity with 2-amino-5-methylphenol and 2-amino-4-methylphenol. The enzyme from the bacterium Comamonas testosteroni CNB-1 also has the activity of EC 1.13.11.76, 2-amino-5-chlorophenol 1,6-dioxygenase.
Synonyms	amnA (gene name); amnB (gene name); 2-aminophenol:oxygen 1,6-oxidoreductase (decyclizing)

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.13.11.74
Reaction	2-aminophenol + O2 = 2-aminomuconate 6-semialdehyde
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 ℃.