Creative Enzymes®

naphthalene 1,2-dioxygenase

Cat. No. EXWM-0681

Lot. No. (See product label)

Introduction

Description	This enzyme is a member of the ring-hydroxylating dioxygenase (RHD) family of bacterial enzymes that play a critical role in the degradation of aromatic compounds, such as polycyclic aromatic hydrocarbons. This enzyme comprises a multicomponent system, containing a reductase that is an iron-sulfur flavoprotein (FAD; EC 1.18.1.3, ferredoxin-NAD+ reductase), an iron-sulfur oxygenase, and ferredoxin. Requires Fe2+.
Synonyms	naphthalene dioxygenase; naphthalene oxygenase; NDO

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.14.12.12
CAS No.	9074-04-8
Reaction	naphthalene + NADH + H+ + O2 = (1R,2S)-1,2-dihydronaphthalene-1,2-diol + NAD+
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 ℃.