

biphenyl 2,3-dioxygenase

Cat. No. EXWM-0687

Lot. No. (See product label)

Introduction

Description Requires Fe2+. The enzyme from Burkholderia fungorum LB400 (previously

Pseudomonas sp.) is part of a multicomponent system composed of an

NADH:ferredoxin oxidoreductase (FAD cofactor), a [2Fe-2S] Rieske-type ferredoxin, and a terminal oxygenase that contains a [2Fe-2S] Rieske-type iron-sulfur cluster and a catalytic mononuclear nonheme iron centre. Chlorine-substituted biphenyls can also act as substrates. Similar to the three-component enzyme systems EC 1.14.12.3 (benzene 1,2-dioxygenase) and EC 1.14.12.11 (toluene dioxygenase).

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Synonyms biphenyl dioxygenase

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.14.12.18

CAS No. 103289-55-0

Reaction biphenyl + NADH + H+ + O2 = (15,2R)-3-phenylcyclohexa-3,5-diene-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 °C for short term. For long term storage, store it at -20 °C~-80 °C.

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