

phytochromobilin:ferredoxin oxidoreductase

Cat. No. EXWM-1399

Lot. No. (See product label)

Introduction

Description Catalyses the two-electron reduction of biliverdin IX α . Can use [2Fe-2S] ferredoxins from a number of sources as acceptor but not the [4Fe-4S] ferredoxin from *Clostridium pasteurianum*. The isomerization of (3Z)-phytochromobilin to (3E)-phytochromobilin is thought to occur prior to covalent attachment to apophytochrome in the plant cell cytoplasm. Flavodoxins can be used instead of ferredoxin.

Synonyms HY2; PPhi B synthase; phytochromobilin synthase

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.3.7.4

CAS No. 138263-99-7

Reaction (3Z)-phytochromobilin + 2 oxidized ferredoxin = biliverdin IX α + 2 reduced ferredoxin

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.