

## phytochromobilin:ferredoxin oxidoreductase

Cat. No. EXWM-1399

Lot. No. (See product label)

### Introduction

#### Description

Catalyses the two-electron reduction of biliverdin IX $\alpha$ . 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 $\alpha$  + 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.