Creative Enzymes®

phytochromobilin:ferredoxin oxidoreductase

Cat. No. EXWM-1399

Lot. No. (See product label)

Introduction

Description	Catalyses the two-electron reduction of biliverdin IXα. 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 IXα + 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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.