Creative Enzymes®

3,8-divinyl protochlorophyllide a 8-vinyl-reductase (ferredoxin)

Cat. No. EXWM-1394

Lot. No. (See product label)

Introduction

Description	The enzyme, found in many phototrophic bacteria, land plants, and some green and red algae, is involved in the production of monovinyl versions of (bacterio)chlorophyll pigments from their divinyl precursors. Binds two [4Fe-4S] clusters and an FAD cofactor. It can also act on 3,8-divinyl chlorophyllide a, 3,8-divinyl chlorophyll a, and chlorophyll c2. cf. EC 1.3.1.75, 3,8-divinyl protochlorophyllide a 8-vinyl-reductase (NADPH).
Synonyms	bciB (gene name); cyano-type divinyl chlorophyllide a 8-vinyl-reductase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.3.7.13
Reaction	protochlorophyllide a + 2 oxidized ferredoxin [iron-sulfur] cluster = 3,8-divinyl protochlorophyllide a + 2 reduced ferredoxin [iron-sulfur] cluster + 2 H+
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 ℃.