

## ferredoxin:protochlorophyllide reductase (ATP-dependent)

Cat. No. EXWM-1402

Lot. No. (See product label)

## Introduction

**Description** Occurs in photosynthetic bacteria, cyanobacteria, green algae and gymnosperms.

The enzyme catalyses trans-reduction of the D-ring of protochlorophyllide; the product has the (7S,8S)-configuration. Unlike EC 1.3.1.33 (protochlorophyllide reductase), light is not required. The enzyme contains a [4Fe-4S] cluster, and structurally resembles the Fe protein/MoFe protein complex of nitrogenase (EC

1.18.6.1), which catalyses an ATP-driven reduction.

**Synonyms** light-independent protochlorophyllide reductase

## **Product Information**

**Form** Liquid or lyophilized powder

**EC Number** EC 1.3.7.7

**Reaction** chlorophyllide a + oxidized ferredoxin + 2 ADP + 2 phosphate =

protochlorophyllide a + reduced ferredoxin + 2 ATP + 2 H2O

**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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