

## 3,8-divinyl chlorophyllide a reductase

Cat. No. EXWM-1395

Lot. No. (See product label)

### Introduction

**Description** The enzyme, found only in bacteriochlorophyll b-producing bacteria, catalyses the introduction of a C-8 ethylidene group. The enzyme contains a [4Fe-4S] cluster, and structurally resembles the Fe protein/MoFe protein complex of nitrogenase. It is very similar to EC 1.3.7.15, chlorophyllide a reductase, and is composed of three subunits. Two of them form the catalytic component, while the third one functions as an ATP-dependent reductase component that catalyses the electron transfer from ferredoxin to the catalytic component.

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 1.3.7.14

**Reaction** bacteriochlorophyllide g + 2 oxidized ferredoxin [iron-sulfur] cluster + ADP + phosphate = 3,8-divinyl chlorophyllide a + 2 reduced ferredoxin [iron-sulfur] cluster + ATP + H<sub>2</sub>O + 2 H<sup>+</sup>

**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.