

## bacteriochlorophyllide a dehydrogenase

Cat. No. EXWM-0316

Lot. No. (See product label)

### Introduction

**Description** The enzyme, together with EC 1.3.7.15, chlorophyllide-a reductase, and EC 4.2.1.165, chlorophyllide-a 31-hydratase, is involved in the conversion of chlorophyllide a to bacteriochlorophyllide a. The enzymes can act in multiple orders, resulting in the formation of different intermediates, but the final product of the cumulative action of the three enzymes is always bacteriochlorophyllide a. The enzyme oxidizes a hydroxyl group on ring A, converting it to an oxo group.

**Synonyms** bchC (gene name)

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 1.1.1.396

**Reaction** (1) 3-deacetyl-3-(1-hydroxyethyl)bacteriochlorophyllide a + NAD<sup>+</sup> = bacteriochlorophyllide a + NADH + H<sup>+</sup>; (2) 3-devinyl-3-(1-hydroxyethyl)chlorophyllide a + NAD<sup>+</sup> = 3-acetyl-3-devinylchlorophyllide a + NADH + 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.