

## 1-hydroxy-2-isopentenylcarotenoid 3,4-desaturase

Cat. No. EXWM-1437

Lot. No. (See product label)

### Introduction

**Description** The enzyme, isolated from the archaeon *Haloarcula japonica*, is involved in the biosynthesis of the C50 carotenoid bacterioruberin. In this pathway it catalyses the desaturation of the C-3,4 double bond in dihydroisopentenyldehydrorhodopin and the desaturation of the C-3',4' double bond in dihydrobisanhydrobacterioruberin.

**Synonyms** crtD (gene name)

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 1.3.99.37

**Reaction** (1) dihydroisopentenyldehydrorhodopin + acceptor = isopentenyldehydrorhodopin + reduced acceptor;  
(2) dihydrobisanhydrobacterioruberin + acceptor = bisanhydrobacterioruberin + reduced acceptor

**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.