Creative Enzymes®

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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.