Creative Enzymes®

chlorophyllide a 31-hydratase

Cat. No. EXWM-5006

Lot. No. (See product label)

Introduction

Description	The enzyme, together with EC 1.3.7.15, chlorophyllide-a reductase, and EC 1.1.1.396, bacteriochlorophyllide-a dehydrogenase, 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 catalyses the hydration of a vinyl group on ring A, converting it to a hydroxyethyl group.
Synonyms	bchF (gene name)

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 4.2.1.165
Reaction	(1) 3-devinyl-3-(1-hydroxyethyl)chlorophyllide a = chlorophyllide a + H2O; (2) 3-deacetyl-3-(1-hydroxyethyl)bacteriochlorophyllide a = 3-deacetyl-3-vinylbacteriochlorophyllide a + 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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.