

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 + H2O + 2 H+
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.