

phycobiliprotein cysteine-84 phycobilin lyase

Cat. No. EXWM-5331

Lot. No. (See product label)

Introduction

Description The enzyme, found in cyanobacteria and red algae, catalyses the attachment of phycobilin chromophores to cysteine 84 of several phycobiliproteins (the numbering used here corresponds to the enzyme from *Anabaena*, in other organisms the number may vary slightly). It can attach phycocyanobilin to the β subunits of C-phycocyanin and phycoerythrocyanin and to both subunits of allophycocyanin. In addition, it can attach phycoerythrobilin to both subunits of C-phycoerythrin.

Synonyms cpcS (gene name); cpeS (gene name); cpcS1 (gene name); cpcU (gene name); phycocyanobilin:Cys- β 84-phycobiliprotein lyase

Product Information

Form Liquid or lyophilized powder

EC Number EC 4.4.1.29

Reaction (1) [C-phycocyanin β -subunit]-Cys84-phycocyanobilin = apo-[C-phycocyanin β -subunit] + (2R,3E)-phycocyanobilin; (2) [phycoerythrocyanin β -subunit]-Cys84-phycocyanobilin = apo-[phycoerythrocyanin β -subunit] + (2R,3E)-phycocyanobilin; (3) [allophycocyanin α -subunit]-Cys84-phycocyanobilin = apo-[allophycocyanin α -subunit] + (2R,3E)-phycocyanobilin; (4) [allophycocyanin β -subunit]-Cys84-phycocyanobilin = apo-[allophycocyanin β -subunit] + (2R,3E)-phycocyanobilin; (5) [C-phycoerythrin α -subunit]-Cys84-phycoerythrobilin = apo-[C-phycoerythrin α -subunit] + (2R,3E)-phycoerythrobilin; (6) [C-phycoerythrin β -subunit]-Cys84-phycoerythrobilin = apo-[C-phycoerythrin β -subunit] + (2R,3E)-phycoerythrobilin;

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.