Creative Enzymes®

sirohydrochlorin cobaltochelatase

Cat. No. EXWM-5360

Lot. No. (See product label)

Introduction

Description	This enzyme is a type II chelatase, being either a monomer (CbiX) or a homodimer (CibK) and being ATP-independent. CbiK from Salmonella enterica uses precorrin-2 as the substrate to yield cobalt-precorrin-2. The enzyme contains two histidines at the active site that are thought to be involved in the deprotonation of the tetrapyrrole substrate as well as in metal binding. CbiX from Bacillus megaterium inserts cobalt at the level of sirohydrochlorin (factor-II) rather than precorrin-2.
Synonyms	CbiK; CbiX; CbiXS; anaerobic cobalt chelatase; cobaltochelatase [ambiguous]; sirohydrochlorin cobalt-lyase (incorrect)

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 4.99.1.3
Reaction	cobalt-sirohydrochlorin + 2 H+ = sirohydrochlorin + Co2+
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 ℃.