

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; cbiX; 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

Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.

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