

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