

heme oxygenase (staphylobilin-producing)

Cat. No. EXWM-1058

Lot. No. (See product label)

Introduction

Description

This enzyme, which is found in pathogenic bacteria, is involved in an iron acquisition system that catabolizes the host's hemoglobin. The two enzymes from the bacterium *Staphylococcus aureus*, encoded by the *isdG* and *isdI* genes, produce 67.5 % and 56.2 % 5-oxo-Δ-bilirubin, respectively.

Synonyms

haem oxygenase (ambiguous); heme oxygenase (decyclizing) (ambiguous); heme oxidase (ambiguous); haem oxidase (ambiguous); heme oxygenase (ambiguous); *isdG* (gene name); *isdI* (gene name)

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.14.99.48

Reaction

(1) protoheme + 4 AH₂ + 4 O₂ = 5-oxo-Δ-bilirubin + Fe²⁺ + CO + 4 A + 4 H₂O; (2) protoheme + 4 AH₂ + 4 O₂ = 15-oxo-β-bilirubin + Fe²⁺ + CO + 4 A + 4 H₂O

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.