Creative Enzymes®

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