

ferroxidase

Cat. No. EXWM-1075

Lot. No. (See product label)

Introduction

Description

The enzyme in blood plasma (ceruloplasmin) belongs to the family of multicopper oxidases. In humans it accounts for 95% of plasma copper. It oxidizes Fe(II) to Fe(III), which allows the subsequent incorporation of the latter into proteins such as apotransferrin and lactoferrin. An enzyme from iron oxidizing bacterium strain TI-1 contains heme a.

Synonyms

ceruloplasmin; caeruloplasmin; ferroxidase I; iron oxidase; iron(II):oxygen oxidoreductase; ferro:O₂ oxidoreductase; iron II:oxygen oxidoreductase; hephaestin; HEPH

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.16.3.1

CAS No.

9031-37-2, 104404-69-5

Reaction

$4 \text{ Fe(II)} + 4 \text{ H}^+ + \text{O}_2 = 4 \text{ Fe(III)} + 2 \text{ H}_2\text{O}$

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.