

bacterial non-heme ferritin

Cat. No. EXWM-1076

Lot. No. (See product label)

Introduction

Description

Ferritins are intracellular iron-storage and detoxification proteins found in all kingdoms of life. They are formed from two subunits that co-assemble in various ratios to form a spherical protein shell. Thousands of mineralized iron atoms are stored within the core of the structure. The product of dioxygen reduction by the bacterial non-heme ferritin is hydrogen peroxide, which is consumed in a subsequent reaction.

Synonyms

FtnA; HuHF

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.16.3.2

Reaction

$4 \text{ Fe(II)} + \text{O}_2 + 6 \text{ H}_2\text{O} = 4 [\text{FeO(OH)}] + 8 \text{ H}^+$ (overall reaction); (1a) $2 \text{ Fe(II)} + \text{O}_2 + 4 \text{ H}_2\text{O} = 2 [\text{FeO(OH)}] + 4 \text{ H}^+ + \text{H}_2\text{O}_2$; (1b) $2 \text{ Fe(II)} + \text{H}_2\text{O}_2 + 2 \text{ H}_2\text{O} = 2 [\text{FeO(OH)}] + 4 \text{ H}^+$

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.