Creative Enzymes®

# bacterial non-heme ferritin

*Cat. No. EXWM-1076*

*Lot. No.* (See product label)

## Introduction

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| ***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

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| ***Form*** | Liquid or lyophilized powder |
| ***EC Number*** | EC 1.16.3.2 |
| ***Reaction*** | 4 Fe(II) + O2 + 6 H2O = 4 [FeO(OH)] + 8 H+ (overall reaction); (1a) 2 Fe(II) + O2 + 4 H2O = 2 [FeO(OH)] + 4 H+ + H2O2; (1b) 2 Fe(II) + H2O2 + 2 H2O = 2 [FeO(OH)] + 4 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

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| ***Storage*** | Store it at +4 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃. |