

## L-ascorbate peroxidase

Cat. No. EXWM-0492

Lot. No. (See product label)

### Introduction

#### Description

A heme protein. Oxidizes ascorbate and low molecular weight aromatic substrates. The monodehydroascorbate radical produced is either directly reduced back to ascorbate by EC 1.6.5.4 [monodehydroascorbate reductase (NADH)] or undergoes non-enzymic disproportionation to ascorbate and dehydroascorbate.

#### Synonyms

L-ascorbic acid peroxidase; L-ascorbic acid-specific peroxidase; ascorbate peroxidase; ascorbic acid peroxidase

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 1.11.1.11

#### CAS No.

72906-87-7

#### Reaction

$2 \text{ L-ascorbate} + \text{H}_2\text{O}_2 + 2 \text{ H}^+ = \text{L-ascorbate} + \text{L-dehydroascorbate} + 2 \text{ H}_2\text{O}$   
(overall reaction); (1a)  $2 \text{ L-ascorbate} + \text{H}_2\text{O}_2 + 2 \text{ H}^+ = 2 \text{ monodehydroascorbate} + 2 \text{ H}_2\text{O}$ ; (1b)  $2 \text{ monodehydroascorbate} = \text{L-ascorbate} + \text{L-dehydroascorbate}$   
(spontaneous)

#### 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.