

## caldariellaquinol oxidase (H<sup>+</sup>-transporting)

Cat. No. EXWM-0479

Lot. No. (See product label)

### Introduction

#### Description

A copper-containing cytochrome. The enzyme from thermophilic archaea is part of the terminal oxidase and catalyses the reduction of O<sub>2</sub> to water, accompanied by the extrusion of protons across the cytoplasmic membrane.

#### Synonyms

SoxABCD quinol oxidase; SoxABCD complex; quinol oxidase SoxABCD; SoxM supercomplex; aa3-type quinol oxidase; aa3 quinol oxidase; cytochrome aa3; terminal quinol oxidase; terminal quinol:oxygen oxidoreductase; caldariella quinol:dioxygen oxidoreductase; cytochrome aa3-type oxidase caldariellaquinol:O<sub>2</sub> oxidoreductase (H<sup>+</sup>-transporting)

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 7.1.1.4 (Formerly EC 1.10.3.13)

#### Reaction

$2 \text{ caldariellaquinol} + \text{O}_2 + n \text{ H}^+[\text{side 1}] = 2 \text{ caldariellaquinone} + 2 \text{ H}_2\text{O} + n \text{ H}^+[\text{side 2}]$

#### 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.