

ubiquinol oxidase (non-electrogenic)

Cat. No. EXWM-0477

Lot. No. (See product label)

Introduction

Description

The enzyme, described from the mitochondria of plants and some fungi and protists, is an alternative terminal oxidase that is not sensitive to cyanide inhibition and does not generate a proton motive force. Unlike the electrogenic terminal oxidases that contain hemes (cf. EC 1.10.3.10 and EC 1.10.3.14), this enzyme contains a dinuclear non-heme iron complex. The function of this oxidase is believed to be dissipating excess reducing power, minimizing oxidative stress, and optimizing photosynthesis in response to changing conditions.

Synonyms

plant alternative oxidase; cyanide-insensitive oxidase; AOX (gene name); ubiquinol oxidase; ubiquinol:O₂ oxidoreductase (non-electrogenic)

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.10.3.11

Reaction $2 \text{ ubiquinol} + \text{O}_2 = 2 \text{ ubiquinone} + 2 \text{ H}_2\text{O}$

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.