aerobic carbon monoxide dehydrogenase

Cat. No. EXWM-1222

Lot. No. (See product label)

Introduction

Description	This enzyme, found in carboxydotrophic bacteria, catalyses the oxidation of CO to CO2 under aerobic conditions. The enzyme contains a binuclear Mo-Cu cluster in which the copper is ligated to a molybdopterin center via a sulfur bridge. The enzyme also contains two [2Fe-2S] clusters and FAD, and belongs to the xanthine oxidoreductase family. The CO2 that is produced is assimilated by the Calvin-Benson-Basham cycle, while the electrons are transferred to a quinone via the FAD site, and continue through the electron transfer chain to a dioxygen terminal acceptor. cf. EC 1.2.7.4, anaerobic carbon monoxide dehydrogenase.
Synonyms	MoCu-CODH; coxSML (gene names); molybdoenzyme carbon monoxide dehydrogenase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.2.5.3
Reaction	CO + a quinone + H2O = CO2 + a quinol
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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.