

plastoquinol-plastocyanin reductase

Cat. No. EXWM-0489

Lot. No. (See product label)

Introduction

Description Contains two b-type cytochromes, two c-type cytochromes (cn and f), and a [2Fe-2S] Rieske cluster. The

enzyme plays a key role in photosynthesis, transferring electrons from photosystem II (EC 1.10.3.9) to photosystem I (EC 1.97.1.12). Cytochrome c-552 can act as acceptor instead of plastocyanin, but more slowly. In chloroplasts, protons are translocated through the thylakoid membrane from the stroma to the lumen. The mechanism occurs through the Q cycle as in EC 1.10.2.2, quinol-cytochrome-c reductase

(complex III) and involves electron bifurcation.

Synonyms plastoquinol/plastocyanin oxidoreductase; cytochrome f/b6 complex; cytochrome b6f complex

Product Information

Form Liquid or lyophilized powder

EC Number EC 7.1.1.6 (Formerly EC 1.10.9.1)

CAS No. 79079-13-3

Reaction plastoquinol + 2 oxidized plastocyanin + 2 H+[side 1] = plastoquinone + 2 reduced plastocyanin + 4 H+

[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 \sim -80 °C.

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