

glucose 1-dehydrogenase (PQQ, quinone)

Cat. No. EXWM-0430

Lot. No. (See product label)

Introduction

Description Integral membrane protein containing PQQ as prosthetic group. It also contains bound ubiquinone and

Mg2+ or Ca2+. Electron acceptor is membrane ubiquinone but usually assayed with phenazine methosulfate. Like in all other quinoprotein alcohol dehydrogenases the catalytic domain has an 8-bladed propeller structure. It occurs in a wide range of bacteria. Catalyses a direct oxidation of the pyranose form of D-glucose to the lactone and thence to D-gluconate in the periplasm. Oxidizes other monosaccharides

including the pyranose forms of pentoses.

Synonyms quinoprotein glucose dehydrogenase; membrane-bound glucose dehydrogenase; mGDH; glucose

dehydrogenase (PQQ-dependent); glucose dehydrogenase (pyrroloquinoline-quinone); quinoprotein D-

glucose dehydrogenase

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.1.5.2

CAS No. 81669-60-5

Reaction D-glucose + ubiquinone = D-glucono-1,5-lactone + ubiquinol

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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