Creative Enzymes®

soluble quinoprotein glucose dehydrogenase

Cat. No. EXWM-0463

Lot. No. (See product label)

Introduction

Description	Soluble periplasmic enzyme containing PQQ as prosthetic group, bound to a calcium ion. Electron acceptor is not known. It is assayed with Wurster's Blue or phenazine methosulfate. It has negligible sequence or structure similarity to other quinoproteins. It catalyses an exceptionally high rate of oxidation of a wide range of aldose sugars, including D-glucose, galactose, arabinose and xylose, and also the disaccharides lactose, cellobiose and maltose. It has been described only in Acinetobacter calcoaceticus.
Synonyms	soluble glucose dehydrogenase; sGDH; glucose dehydrogenase (PQQ-dependent)

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.1.99.35
Reaction	D-glucose + acceptor = D-glucono-1,5-lactone + reduced acceptor
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 ℃.