Creative Enzymes®

cellobiose dehydrogenase (acceptor)

Cat. No. EXWM-0448

Lot. No. (See product label)

Introduction

Description	Also acts, more slowly, on cello-oligosaccharides, lactose and D-glucosyl-1,4-β-D-mannose. The enzyme from the white rot fungus Phanerochaete chrysosporium is unusual in having two redoxin domains, one containing a flavin and the other a protoheme group. It transfers reducing equivalents from cellobiose to two types of redox acceptor: two-electron oxidants, including redox dyes, benzoquinones, and molecular oxygen, and one-electron oxidants, including semiquinone species, iron(II) complexes, and the model acceptor cytochrome c. 2,6-Dichloroindophenol can act as acceptor in vitro.
Synonyms	cellobiose dehydrogenase; cellobiose oxidoreductase; Phanerochaete chrysosporium cellobiose oxidoreductase; CBOR; cellobiose oxidase; cellobiose:oxygen 1-oxidoreductase; CDH; cellobiose:(acceptor) 1-oxidoreductase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.1.99.18
CAS No.	54576-85-1
Reaction	cellobiose + acceptor = cellobiono-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 ℃.