Creative Enzymes®

CoB-CoM heterodisulfide reductase

Cat. No. EXWM-1682

Lot. No. (See product label)

Introduction

Description	This enzyme is found in methanogenic archaea, particularly Methanosarcina species, and regenerates coenzyme M and coenzyme B after the action of EC 2.8.4.1, coenzyme-B sulfoethylthiotransferase. Contains (per heterodimeric unit) two distinct b-type hemes and two [4Fe-4S] clusters. Highly specific for both coenzyme M and coenzyme B. Reacts with various phenazine derivatives, including 2-hydroxyphenazine and 2-bromophenazine.
Synonyms	heterodisulfide reductase; soluble heterodisulfide reductase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.8.98.1
Reaction	coenzyme B + coenzyme M + methanophenazine = N-{7-[(2-sulfoethyl)dithio]heptanoyl}-O3-phospho-L-threonine + dihydromethanophenazine
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 ℃.