Creative Enzymes®

coenzyme-B sulfoethylthiotransferase

Cat. No. EXWM-3427

Lot. No. (See product label)

Introduction

Description This enzyme catalyses the final step in methanogenesis, the biological production of methane. This important anaerobic process is carried out only by methanogenic archaea. The enzyme can also function in reverse, for anaerobic oxidation of methane.The enzyme requires the hydroporphinoid nickel complex coenzyme F430. Highly specific for coenzyme B with a heptanoyl chain; ethyl CoM and difluoromethyl CoM are poor substrates. The sulfide sulfur can be replaced by selenium but not by oxygen.

Synonyms methyl-CoM reductase; methyl coenzyme M reductase

Product Information

Form Liquid or lyophilized powder

EC Number EC 2.8.4.1

Reaction methyl-CoM + CoB = CoM-S-S-CoB + methane

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 ℃.