

2-(R)-hydroxypropyl-CoM dehydrogenase

Cat. No. EXWM-0174

Lot. No. (See product label)

Introduction

Description

The enzyme is highly specific for (R)-2-hydroxyalkyl thioethers of CoM, in contrast to EC 1.1.1.269, 2-(S)-hydroxypropyl-CoM dehydrogenase, which is highly specific for the (S)-enantiomer. This enzyme forms component III of a four-component enzyme system {comprising EC 4.4.1.23 (2-hydroxypropyl-CoM lyase; component I), EC 1.8.1.5 [2-oxopropyl-CoM reductase (carboxylating); component II], EC 1.1.1.268 [2-(R)-hydroxypropyl-CoM dehydrogenase; component III] and EC 1.1.1.269 [2-(S)-hydroxypropyl-CoM dehydrogenase; component IV]} that is involved in epoxyalkane carboxylation in *Xanthobacter* sp. strain Py2.

Synonyms

2-(2-(R)-hydroxypropylthio)ethanesulfonate dehydrogenase

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.1.1.268

CAS No. 244301-33-5

Reaction 2-(R)-hydroxypropyl-CoM + NAD⁺ = 2-oxopropyl-CoM + NADH + H⁺

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~-80 °C.