

## 2-(S)-hydroxypropyl-CoM dehydrogenase

Cat. No. EXWM-0175

Lot. No. (See product label)

### Introduction

**Description** The enzyme is highly specific for (S)-2-hydroxyalkyl thioethers of CoM, in contrast to EC 1.1.1.268, 2-(R)-hydroxypropyl-CoM dehydrogenase, which is highly specific for the (R)-enantiomer. This enzyme forms component IV 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-(S)-hydroxypropylthio)ethanesulfonate dehydrogenase

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 1.1.1.269

**CAS No.** 369364-40-9

**Reaction** 2-(S)-hydroxypropyl-CoM + NAD<sup>+</sup> = 2-oxopropyl-CoM + NADH + H<sup>+</sup>

**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.