

## sulphydrogenase

Cat. No. EXWM-0527

Lot. No. (See product label)

### Introduction

#### Description

An iron-sulfur protein. The enzyme from the hyperthermophilic archaeon *Pyrococcus furiosus* is part of two heterotetrameric complexes where the  $\beta$  and  $\gamma$  subunits function as sulfur reductase and the  $\alpha$  and  $\Delta$  subunits function as hydrogenases (EC 1.12.1.3, hydrogen dehydrogenase [NADP+], and EC 1.12.1.4, hydrogen dehydrogenase [NAD(P)+], respectively). Sulfur can also be used as substrate, but since it is insoluble in aqueous solution and polysulfide is generated abiotically by the reaction of hydrogen sulfide and sulfur, polysulfide is believed to be the true substrate.

#### Synonyms

sulfur reductase

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 1.12.98.4

#### Reaction

$H_2 + (sulfide)_n = \text{hydrogen sulfide} + (sulfide)_{n-1}$

#### 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.