

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

**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.