

## Recombinant Acidianus ambivalens Sulfur oxygenase/reductase

Cat. No. EXWM-0574

Lot. No. (See product label)

## Introduction

Description

This enzyme, which is found in thermophilic microorganisms, contains one mononuclear none-heme iron centre per subunit. Elemental sulfur is both the electron donor and one of the two known acceptors, the other being oxygen. Thiosulfate is also observed as a product, but is likely formed non-enzymically by a reaction between sulfite and sulfur. This enzyme differs from EC 1.13.11.18, sulfur dioxygenase and EC 1.12.98.4, sulfhydrogenase, in that both activities occur simultaneously.

## **Product Information**

**Species** Acidianus ambivalens

**Source** E.coli

**Form** Liquid or Lyophilized powder

**EC Number** EC 1.13.11.55

*CAS No.* 120598-92-7

Molecular

35.3kDa

Weight

**Purity** Greater than 85% as determined by SDS-PAGE.

Activity Not detected

**Reaction** 4 sulfur + 4 H2O + O2 = 2 hydrogen sulfide + 2 sulfite

**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 at -20°C/-80°C upon receipt, aliquoting is necessary for mutiple use. Avoid repeated freeze-thaw

cycles.

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