

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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