

## assimilatory sulfite reductase (ferredoxin)

Cat. No. EXWM-1680

Lot. No. (See product label)

### Introduction

#### Description

An iron protein. The enzyme participates in sulfate assimilation. While it is usually found in cyanobacteria, plants and algae, it has also been reported in bacteria. Different from EC 1.8.99.5, dissimilatory sulfite reductase, which is involved in prokaryotic sulfur-based energy metabolism. cf. EC 1.8.1.2, assimilatory sulfite reductase (NADPH).

#### Synonyms

ferredoxin-sulfite reductase; SIR (gene name); sulfite reductase (ferredoxin)

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 1.8.7.1

#### CAS No.

37256-50-1

#### Reaction

hydrogen sulfide + 6 oxidized ferredoxin [iron-sulfur] cluster + 3 H<sub>2</sub>O = sulfite + 6 reduced ferredoxin [iron-sulfur] cluster + 6 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.