

## assimilatory sulfite reductase (NADPH)

Cat. No. EXWM-1646

Lot. No. (See product label)

### Introduction

#### Description

Contains siroheme, [4Fe-4S] cluster, FAD and FMN. The enzyme, which catalyses the six-electron reduction of sulfite to sulfide, is involved in sulfate assimilation in bacteria and yeast. Different from EC 1.8.99.5, dissimilatory sulfite reductase, which is involved in prokaryotic sulfur-based energy metabolism. cf. EC 1.8.7.1, assimilatory sulfite reductase (ferredoxin).

#### Synonyms

sulfite reductase (NADPH); sulfite (reduced nicotinamide adenine dinucleotide phosphate) reductase; NADPH-sulfite reductase; NADPH-dependent sulfite reductase; H<sub>2</sub>S-NADP oxidoreductase; sulfite reductase (NADPH<sub>2</sub>); MET5 (gene name); MET10 (gene name); cysI (gene name); cysJ (gene name)

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 1.8.1.2

**CAS No.** 9029-35-0

**Reaction** hydrogen sulfide + 3 NADP<sup>+</sup> + 3 H<sub>2</sub>O = sulfite + 3 NADPH + 3 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.