Creative Enzymes®

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; H2S-NADP oxidoreductase; sulfite reductase (NADPH2); 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+ + 3 H2O = sulfite + 3 NADPH + 3 H+
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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.