Creative Enzymes®

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 H2O = sulfite + 6 reduced ferredoxin [iron-sulfur] cluster + 6 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 ℃.