

persulfide dioxygenase

Cat. No. EXWM-0537

Lot. No. (See product label)

Introduction

Description An iron protein. Perthiols, formed spontaneously by interactions between thiols and

elemental sulfur or sulfide, are the only acceptable substrate to the enzyme. The

sulfite that is formed by the enzyme can be further converted into sulfate, thiosulfate or S-sulfoglutathione (GSSO3-) non-enzymically.

Synonyms sulfur oxygenase (incorrect); sulfur:oxygen oxidoreductase (incorrect); sulfur

dioxygenase (incorrect)

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.13.11.18

CAS No. 37256-58-9

Reaction S-sulfanylglutathione + O2 + H2O = glutathione + sulfite + 2 H+ (overall reaction);

(1a) S-sulfanylglutathione + O2 = S-sulfinatoglutathione + H+; (1b) S-sulfinatoglutathione + H2O = glutathione + sulfite + H+ (spontaneous)

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.

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