

## carbon disulfide lyase

Cat. No. EXWM-5329

Lot. No. (See product label)

### Introduction

#### Description

The enzyme contains  $Zn^{2+}$ . The hyperthermophilic archaeon *Acidianus* sp. A1-3 obtains energy by the conversion of carbon disulfide to hydrogen sulfide, with carbonyl sulfide as an intermediate.

#### Synonyms

CS<sub>2</sub> hydrolase (misleading); carbon disulfide hydrolase (misleading); CS<sub>2</sub>-converting enzyme; carbon disulphide-lyase (decarboxylating)

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 4.4.1.27

#### Reaction

carbon disulfide + 2 H<sub>2</sub>O = CO<sub>2</sub> + 2 hydrogen sulfide (overall reaction); (1a)  
carbon disulfide + H<sub>2</sub>O = carbonyl sulfide + hydrogen sulfide; (1b) carbonyl sulfide + H<sub>2</sub>O = CO<sub>2</sub> + hydrogen sulfide

#### 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.