

## carbon disulfide lyase

Cat. No. EXWM-5329

Lot. No. (See product label)

### Introduction

**Description** The enzyme contains Zn<sup>2+</sup>. 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.