

## glycine reductase

Cat. No. EXWM-1257

Lot. No. (See product label)

## Introduction

**Description** The reaction is observed only in the direction of glycine reduction. The enzyme from Eubacterium

acidaminophilum consists of subunits A, B and C. Subunit B contains selenocysteine and a pyruvoyl group, and is responsible for glycine binding and ammonia release. Subunit A, which also contains

selenocysteine, is reduced by thioredoxin, and is needed to convert the carboxymethyl group into a ketene equivalent, in turn used by subunit C to produce acetyl phosphate. Only subunit B distinguishes

this enzyme from EC 1.21.4.3 (sarcosine reductase) and EC 1.21.4.4 (betaine reductase).

## **Product Information**

**Form** Liquid or lyophilized powder

**EC Number** EC 1.21.4.2

**CAS No.** 39307-24-9

**Reaction** acetyl phosphate + NH3 + thioredoxin disulfide + H2O = glycine + phosphate + thioredoxin

**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

Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.

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