

## tryptophan synthase (indole-salvaging)

Cat. No. EXWM-4963

Lot. No. (See product label)

## Introduction

**Description** Most mesophilic bacteria have a multimeric tryptophan synthase complex (EC

4.2.1.20) that forms L-tryptophan from L-serine and 1-C-(indol-3-yl)glycerol 3-phosphate via an indole intermediate. This intermediate, which is formed by the  $\alpha$  subunits, is transferred in an internal tunnel to the  $\beta$  units, which convert it to tryptophan. In thermophilic organisms the high temperature enhances diffusion and causes the loss of indole. This enzyme, which does not combine with the  $\alpha$  unit to form a complex, salvages the lost indole back to L-tryptophan. It has a much lower

Km for indole than the  $\beta$  subunit of EC 4.2.1.20.

**Synonyms** tryptophan synthase β2

## **Product Information**

**Form** Liquid or lyophilized powder

**EC Number** EC 4.2.1.122

**Reaction** L-serine + indole = L-tryptophan + H2O

**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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