

## $\gamma$ -glutamyltransferase

Cat. No. EXWM-2293

Lot. No. (See product label)

### Introduction

**Description** The mammalian enzyme is part of the cell antioxidant defense mechanism. It initiates extracellular glutathione (GSH) breakdown, provides cells with a local cysteine supply and contributes to maintain intracellular GSH levels. The protein also has EC 3.4.19.13 (glutathione hydrolase) activity. The enzyme consists of two chains that are created by the proteolytic cleavage of a single precursor polypeptide. The N-terminal L-threonine of the C-terminal subunit functions as the active site for both the cleavage and the hydrolysis reactions.

**Synonyms** glutamyl transpeptidase;  $\alpha$ -glutamyl transpeptidase;  $\gamma$ -glutamyl peptidyltransferase;  $\gamma$ -glutamyl transpeptidase (ambiguous);  $\gamma$ -GPT;  $\gamma$ -GT;  $\gamma$ -GTP; L- $\gamma$ -glutamyl transpeptidase; L- $\gamma$ -glutamyltransferase; L-glutamyltransferase; GGT (ambiguous);  $\gamma$ -glutamyltranspeptidase (ambiguous)

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 2.3.2.2

**CAS No.** 9046-27-9

**Reaction** a (5-L-glutamyl)-peptide + an amino acid = a peptide + a 5-L-glutamyl amino acid

**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.