

## Native Porcine $\gamma$ -Glutamyltranspeptidase

Cat. No. NATE-0793

Lot. No. (See product label)

### Introduction

#### Description

$\gamma$ -glutamyl transferase is an enzyme that transfers gamma-glutamyl functional groups. It is found in many tissues, the most notable one being the liver, and has significance in medicine as a diagnostic marker. GGT catalyzes the transfer of the gamma-glutamyl moiety of glutathione to an acceptor that may be an amino acid, a peptide or water (forming glutamate). GGT plays a key role in the gamma-glutamyl cycle, a pathway for the synthesis and degradation of glutathione and drug and xenobiotic detoxification. Other lines of evidence indicate that GGT can also exert a prooxidant role, with regulatory effects at various levels in cellular signal transduction and cellular pathophysiology.

#### Applications

$\gamma$ -Glutamyltranspeptidase is used in the food industry to improve the umami taste of soy sauce.

#### Synonyms

EC 2.3.2.2; 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);  $\gamma$ -glutamyltransferase; 9046-27-9; GGTP

### Product Information

#### Species

Porcine

#### Source

Porcine kidney

#### EC Number

EC 2.3.2.2

#### CAS No.

9046-27-9

#### Activity

2.0-6.0 units/mg solid

#### Unit Definition

One unit will liberate 1.0  $\mu$ mole of p-nitroaniline from L- $\gamma$ -glutamyl-p-nitroanilide per min at pH 8.5 at 25°C.

### Storage and Shipping Information

#### Storage

-20°C