

## Native Bovine Gamma-Glutamyl Transferase

Cat. No. NATE-0790

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.

**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

<b>Species</b>	Bovine
<b>Source</b>	Bovine Kidney
<b>Appearance</b>	Tan Powder
<b>Form</b>	Lyophilized
<b>EC Number</b>	EC 2.3.2.2
<b>CAS No.</b>	9046-27-9
<b>Purity</b>	Purified
<b>Activity</b>	30 U/mg protein
<b>Contaminants</b>	ALP: 0.2% (Dimension Clinical Chemistry System)CPK: 1%LDH: 1%SGOT/AST: 1%SGPT/ALT: 0.01%Ammonia: 0.1 micromole/mg
<b>Specificity</b>	> 30 U/mg protein
<b>Unit Definition</b>	One unit will catalyze the transfer of one micromole of the glutamyl moiety from gamma-glutamyl-3-carboxy-4-nitranilide to glycylglycine per minute at 37°C.

### Storage and Shipping Information

**Storage** -20°C