

Native Porcine γ -Glutamyltranspeptidase

Cat. No. NATE-0793

Lot. No. (See product label)

Introduction

Description γ -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 γ -Glutamyltranspeptidase is used in the food industry to improve the umami taste of soy sauce.

Synonyms EC 2.3.2.2; glutamyl transpeptidase; α -glutamyl transpeptidase; γ -glutamyl peptidyltransferase; γ -glutamyl transpeptidase (ambiguous); γ -GPT; γ -GT; γ -GTP; L- γ -glutamyl transpeptidase; L- γ -glutamyltransferase; L-glutamyltransferase; GGT (ambiguous); γ -glutamyltranspeptidase (ambiguous); γ -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 μ mole of p-nitroaniline from L- γ -glutamyl-p-nitroanilide per min at pH 8.5 at 25°C.

Storage and Shipping Information

Storage -20°C