

γ-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; 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)

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.