Creative Enzymes®

γ-glutamyl hydrolase

Cat. No. EXWM-4092

Lot. No. (See product label)

Introduction

Description A lysosomal or secreted, thiol-dependent peptidase, most active at acidic pH. Commonly studied with folylpoly-γ-glutamate as substrate, with which the initial cleavage may release glutamate or poly-γ-glutamate of two or more residues, according to the species of origin of the enzyme. Final products are pteroyl-α-glutamate (folic acid) and free glutamate. Highly specific for the γ-glutamyl bond, but not for the C-terminal amino acid (leaving group). Action on γ-glutamyl bonds is independent of an N-terminal pteroyl moiety, but it is not known whether an N-terminal γ-Glu residue can be hydrolysed. Type example of peptidase family C26.

Synonyms conjugase; folate conjugase; lysosomal γ-glutamyl carboxypeptidase; γ-Glu-X carboxypeptidase; pteroyl-poly-γ-glutamate hydrolase; carboxypeptidase G; folic acid conjugase; poly(γ-glutamic acid) endohydrolase; polyglutamate hydrolase; poly(glutamic acid) hydrolase II; pteroylpoly-γ-glutamyl hydrolase

Product Information

Form Liquid or lyophilized powder

EC Number EC 3.4.19.9

CAS No. 9074-87-7

Reaction Hydrolysis of a γ-glutamyl bond

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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.