Creative Enzymes®

glutamate carboxypeptidase II

Cat. No. EXWM-4074

Lot. No. (See product label)

Introduction

Description	A metallo-carboxypeptidase that is predominantly expressed as a membrane-bound enzyme of 94-100 kDa, but also exists in a soluble form. Hydrolyses α-peptide bonds in Ac-Asp-Glu, Asp-Glu, and Glu-Glu, but also γ-glutamyl bonds in γ-Glu-Glu, and folylpoly-γ-glutamates. With folylpoly-γ-glutamates, shows processive carboxypeptidase activity to produce pteroylmonoglutamate. Does not hydrolyse Ac-β-Asp-Glu. Known inhibitors: quisqualic acid, Ac-β-Asp-Glu, and 2-phosphonomethyl-pentanedioate. In peptidase family M28 of Vibrio leucyl aminopeptidase. The release of C-terminal glutamate from folylpoly-γ-glutamates is also catalysed by EC 3.4.17.11 (glutamate carboxypeptidase) and EC 3.4.19.9 (γ-Glu-X carboxypeptidase).
Synonyms	N-acetylated-γ-linked-acidic dipeptidase (NAALADase); folate hydrolase; prostate-specific membrane antigen; pteroylpoly-γ-glutamate carboxypeptidase; microsomal γ-glutamyl carboxypeptidase; pteroylpolyglutamate hydrolase; folylpolyglutamate hydrolase; pteroylpoly-γ-glutamate hydrolase; pteroylpolyγglutamyl hydrolase; pteroylpolyglutamate hydrolase; pteroylpolyglutamic acid hydrolase; PSM antigen; acetylaspartylglutamate dipeptidase; NAALA dipeptidase; rat NAAG peptidase; mGCP; membrane glutamate carboxypeptidase; N-acetylated-α-linked-amino dipeptidase; prostrate-specific membrane antigen; N-Acetylated α-linked acidic dipeptidase; PSMA

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 3.4.17.21
CAS No.	9074-87-7
Reaction	Release of an unsubstituted, C-terminal glutamyl residue, typically from Ac-Asp-Glu or folylpoly-γ-glutamates
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 ℃.