

Carboxypeptidase B (MS grade)

Cat. No.:	HY-E70201	
CAS No.:	9025-24-5	
Target:	Endogenous Metabolite	
Pathway:	Metabolic Enzyme/Protease	Carboxypeptidase B (MS grade)
Storage:	Powder	-20°C 3 years 4°C 2 years
	In solvent	-80°C 6 months -20°C 1 month

BIOLOGICAL ACTIVITY

Description

Carboxypeptidase B (MS grade) is a peptide exonuclease that can specifically degrade peptide chains. Carboxypeptidase B (MS grade) is progressively degraded from the C-terminal to release free amino acids. Carboxypeptidase B (MS grade) hydrolyzes only peptide bonds with basic amino acids (such as arginine and lysine) as C-terminal residues^{[1][2]}.

In Vitro

This product can be used for: 1) detection of antibody basic peaks; 2) determination of protein C-terminal amino acids. Protocol

1) Dissolution: Dissolve carboxypeptidase B in pure water or 25mM Tris-HCl (pH 7.5-8.0) at a final concentration of 1-10mg/ml.

2) Enzyme digestion: The recommended ratio of carboxypeptidase B and target protein is 1:20-1:100 (w:w) for enzyme digestion, and the optimal enzyme digestion pH is 7.0-9.0.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. FOLK JE, et al. The kinetics of carboxypeptidase B activity. II. Kinetic parameters of the cobalt and cadmium enzymes. J Biol Chem. 1962 Oct;237:3100-4.

[2]. Qian X, et al. Molecular characterization of carboxypeptidase B-like (CPB) in Scylla paramamosain and its role in white spot syndrome virus and Vibrio alginolyticus infection. Fish Shellfish Immunol. 2019 Nov;94:434-446.

Caution: Product has not been fully validated for medical applications. For research use only.

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