

Angiotensin Converting enzyme (ACE) inhibitory activities of various enzymes Hydrolysate  
from Sea cucumber protein

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This study measured the antihypertensive activity by various enzyme hydrolysis of sea cucumber protein. Domestic sea cucumber bought and used in this study. Transglutaminase (TG), Protamax (P), Neutrase (N), Pepsin (Pe), Alcalase (A) was hydrolyzed protein of the sea cucumber. A single enzyme was hydrolysis group (A, P, Pe) and the mix enzyme was hydrolysis group (TG+A, TG+A+N, A+N, TG+P, TG+P+N, P+N, TG+Pe, TG+Pe+N, Pe+N) with a total of 12 group in the study. After centrifugation the supernatant was lyophilized hydrolyzate was used as the sample. Using HPLC and the ACE inhibitory activity was measured in a spectrophotometer. 12 kinds of groups TG+P+N 69.67%, P+N 69.08%, P 68.64%, A+N 66.83%, Pe+N 64.72%, A 58.68% 6 different groups it is further showed that hypertensive activity is excellent. Hydrolyzed by the enzyme according to these results of sea cucumber protein could be developed as a raw material for functional foods antihypertensive.