

Author: [ADVANCED](#) | Volume Page
 Keyword: |



[TOP](#) > [Available Issues](#) > [Table of Contents](#) > Abstract

ONLINE ISSN : 1881-3984

PRINT ISSN : 1344-6606

Food Science and Technology Research

Vol. 9 (2003) , No. 3 pp.254-256



[\[PDF \(72K\)\]](#) [\[References\]](#)

Preparation of Angiotensin I-Converting Enzyme Inhibiting Peptides from Soybean Protein by Enzymatic Hydrolysis

[FAN Junfeng](#)¹⁾, [Masayoshi SAITO](#)²⁾, [Eizo TATSUMI](#)²⁾ and [LI Lite](#)¹⁾

1) *College of Food Science and Engineering, China Agricultural University*

2) *Food Science and Technology Division, Japan International Research Center for Agricultural Sciences*

(Received: October 3, 2002)

(Accepted: April 10, 2003)

Soybean protein isolate was hydrolyzed using two proteases (Protease M and Orientase 90N), and the inhibitory activity of angiotensin I-converting enzyme (ACE) and bitterness of the hydrolysates were investigated. The ACE inhibitory activity of the hydrolysates increased with increasing hydrolysis time. Hydrolysates obtained using Protease M for 4 to 10 h and Orientase 90N for 6 to 10 h showed a high ACE inhibitory activity, and the bitterness was negligible. The ACE inhibitory peptides were shown to be oligopeptides composed of 2–5 amino acid residues. These peptides might be useful for therapeutic applications based on the consumption of an anti-hypertensive food.

Keywords: [soybean protein](#), [peptides](#), [angiotensin I-converting enzyme](#), [bitterness](#)



[\[PDF \(72K\)\]](#) [\[References\]](#)

Download Meta of Article [\[Help\]](#)

[RIS](#)

[BibTeX](#)

To cite this article:

Preparation of Angiotensin I-Converting Enzyme Inhibiting Peptides from Soybean Protein by Enzymatic Hydrolysis FAN Junfeng, Masayoshi SAITO, Eizo TATSUMI and LI Lite, *FSTR*. Vol. **9**, 254-256. (2003) .

doi:10.3136/fstr.9.254

JOI JST.JSTAGE/fstr/9.254

Copyright (c) 2007 by Japanese Society for Food Science and Technology



[Japan Science and Technology Information Aggregator, Electronic](#)

