

Antihypertensive effects of *Undaria pinnatifida* (wakame) peptide on blood pressure in spontaneously hypertensive rats.

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Abstract

We examined the angiotensin I-converting enzyme (ACE) inhibitory activity and antihypertensive effect of the hot water extract of wakame, *Undaria pinnatifida*. Ten dipeptides were isolated from the extract by several steps of chromatography, and their amino acid sequences were Tyr-His, Lys-Trp, Lys-Tyr, Lys-Phe, Phe-Tyr, Val-Trp, Val-Phe, Ile-Tyr, Ile-Trp, and Val-Tyr. Both single administration and repeated oral administration of synthetic Tyr-His, Lys-Tyr, Phe-Tyr, and Ile-Tyr significantly decreased blood pressure in spontaneously hypertensive rats.