

Anti-obesity effect by *Hizikia fusiformis* Extracts treated with the complex enzymes

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The object of this study were to evaluate the anti-obese effect of *Hizikia fusiformis*. An active inhibitor was purified from *Hizikia fusiformis* Extracts treated with the complex enzymes (;Viscozyme, celluclast, Alcalase). The purified inhibitor was identified by thin-layer chromatography, infrared and nuclear magnetic resonance spectroscopy.

Hizikia fusiformis competitively inhibited lipase activities using emulsified triolein and dispersed 4-methylumbelliferyl oleate (4-MU oleate) as substrates.

Lipase activity was also measured using 4-MU oleate as a substrate. The reaction was started by adding lipase (TypeVI-S:fromporcine pancrease). After incubation at 37°C for 30min. The amount of 4-methylumbelliferone released by the lipase was measured fluorometrically at an excitation wavelength of 360 nm and an emission wavelength of 460 nm.