

Anti-inflammation activity from the hydrophobic fractions of a culinary mushroom, *Sparassis crispa*

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Among various culinary mushrooms, *Sparassis crispa* has been focused on a healthy food showing anticancer effect of *S. crispa*, which is a famous β -glucan contents. Recently, it exhibits various biological activities such as an antitumor effect, enhancement of the hematopoietic response in cyclophosphamide-induced leukopenic mice, and induction of the pro-duction of cytokines. Although mechanismsa for these effects have been extensively investigated, but it is still underway according to target chemical compounds. In this study, we performed that 200 g of *S. crispa* were extracted with 80% EtOH before further partitioning using EtOAc, n-BuOH and distilled water. Subsequently, silica open column chromatography was performed to be obtained 5 hydrophobic fractions. For antioxidant effects, there is no antioxidant activity using DPPH assay and would be no phenolics and no flavonoids in the fraction. For NO assay, there were a considerable amount of activities so possible anti-inflammation and anticancer effect.