
Subject: Ecklonia cava.Das Superantioxidant?

Posted by [ParkerLewis](#) on Thu, 06 Mar 2008 08:46:55 GMT

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Ecklonia Cava ist in diversen amerikanischen Foren schon etwas länger bekannt und genutzt. Jetzt trudeln die ersten Berichte ein, die Ecklonia Cava eine unabdingbare Rolle im Kampf gegen den Haarausfall bescheinigen. Grund genug der knuffigen Braunalge einen eigenen Thread zu widmen...

DHT signalisiert ja bekanntlich den Transforming Growth Factor-Beta. Da Tgf-b nun seinerseits MMP-2, -9 anregt, welche unmittelbar zur Haarfolikeldegeneration führen, ist es wichtig diese zu kontrollieren und niedrig zu halten, jedoch nicht total zu eliminieren und jetzt guckt mal, was ich gefunden habe...

Life Sci. 2006 Sep 5;79(15):1436-43.

Phlorotannins in Ecklonia cava extract inhibit matrix metalloproteinase activity.

* Kim MM, * Ta QV, * Mendis E, * Rajapakse N, * Jung WK, * Byun HG, * Jeon YJ, * Kim SK.

Marine Bioprocess Research Center, Pukyong National University, Busan 608-737, Republic of Korea.

Matrix metalloproteinase (MMP) inhibitors have been identified as potential therapeutic candidates for metastasis, arthritis, chronic inflammation and wrinkle formation. For the first time here we report a detailed study on the inhibitory effects of phlorotannins in brown algae, Ecklonia cava (EC) on MMP activities in cultured human cell lines. A novel gelatin digestion assay could visualize complete inhibition of bacterial collagenase-1 activity at 20 microg/ml of EC extract during preliminary screening studies. Sensitive fluorometric assay revealed that EC extract can specifically inhibit both MMP-2 and MMP-9 activities significantly ($P < 0.001$) at 10 microg/ml. In addition, artificially induced activities of MMP-2 and MMP-9 in human dermal fibroblasts and HT1080 cells were inhibited by EC extract in a more or less similar manner to the positive control doxycycline. Even though the expression levels of MMPs differ from one cell type to the other, gelatin zymography clearly revealed that both MMP expression and activity in cells can be inhibited by EC extract. More interestingly, EC extract did not exert any cytotoxic effect even at 100 microg/ml anticipating its potential use as a safe MMP inhibitor.

Ecklonia Cava is significantly more potent than EGCG (Green Tea Extract).

Da Ecklonia Cava auch MMP-1 reduziert, ist es ebenfalls ein wunderbares Anti Aging Mittel.