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J Agric Food Chem. 2005 Aug 10;53(16):6272-5.

Antiangiogenic activity of nasunin, an antioxidant anthocyanin, in eggplant peels.

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Abstract

Nasunin, delphinidin-3-(p-coumaroylrutinoside)-5-glucoside, an antioxidant anthocyanin isolated from eggplant peels, was demonstrated as an angiogenesis inhibitor. Nasunin at higher 10 microM suppressed microvessel outgrowth in an ex vivo angiogenesis assay using a rat aortic ring. The effect of nasunin was examined in various in vitro angiogenesis models using human umbilical vein endothelial cells (HUVECs). Nasunin suppressed HUVEC proliferation in a dose-dependent manner (50-200 microM); however, it had no significant effect on HUVEC chemotaxis in a Boyden chamber assay and HUVEC tube formation on a reconstituted basement membrane. These results imply that nasunin with both antioxidant and antiangiogenic activities might be useful to prevent angiogenesis-related diseases.

PMID: 16076105 [PubMed - indexed for MEDLINE]



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