Coumarins of haplopappus multifolius and derivative as inhibitors of lox: Evaluation in-vitro and docking studies

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Several natural compounds containing a coumarin moiety have been reported. They have multiple biological activities, e. g., as scavengers of reactive oxygen species (ROS) and to reduce the inflammatory processes by inhibition of enzymes like COX or LOX. A study was made of the inhibitory capacity of seven natural coumarins and one derivative of esculetin, against soybean 15-lipoxygenase (15-sLOX). The studied coumarins showed interesting degrees of inhibition compared to quercetin, a known LOX inhibitor. Docking studies of some compounds into the binding site of 15-sLOX and 5-hLOX were also made.