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Synthesis and antioxidant evaluation of desmethylxanthohumol analogs and their dimers

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Graphical Abstract

Four ring-closing analogs of natural prenylated chalcone Desmethylxanthohumol (1) and their dimers were synthesized. The antioxidant activities of these new chalcone derivatives were evaluated in the PC12 cell model of hydrogen peroxide (H_2O_2)-induced oxidative damage.



The dimers show better antioxidant activity than the corresponding monomers The most potent compound increased PC12 cell viability from 25% to 85% under 100 μ M

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