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Title: Synthesis and Antioxidant Activity of Modified (+)-Catechin Derivatives. Structure-Activity Relationship

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Abstract: In a screening program for free radical scavengers, new antioxidant compounds have been obtained by C-8 substitution of various groups on (+)-catechin A ring. Their preparation, purification, identification by MS,  $^1\text{H}$  and  $^{13}\text{C}$  NMR analysis as well as their antiradical/antioxidant properties are reported. In order to explore the substituent effect on the observed activity, the obtained results were compared to that of (+)-catechin. Some of the new compounds were more efficient than the underivatized (+)-catechin as scavengers of 1,1-diphenyl-2-picrylhydrazyl (DPPHE) free radical.

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