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The ethyl acetate extract of leaves and twigs from *Mammea harmandii* that showed moderated cytotoxicity against several cancer cell lines are investigated and six known coumarins were isolated. Four of them, 5-hydroxy-8,8-dimethyl-6-(3-methyl-1-oxobutyl)-4-phenyl-2*H*,8*H*-benzo[1,2-*b*:3,4-*b'*]dipyran-2-one 1, 5-hydroxy-8,8-dimethyl-6-(2-methyl-2*H*,8*H*-benzo[1,2-*b*:3,4-*b'*]dipyran-2-one 2, 5-hydroxy-8,8-dimethyl-6-(2-methyl-1-oxopropyl)-4-phenyl-2*H*,8*H*-benzo[1,2-*b*:3,4-*b'*]dipyran-2-one 3 and 5-hydroxy-8,8-dimethyl-6(1-oxobutyl)-4-butyl-2*H*,8*H*-benzo[1,2-*b*:3,4-*b'*]dipyran -2-one 4, are 6-acylcoumarins. Compounds 1 and are isomeric. The other two compounds, 5,7-Dihydroxy-8-(2-methyl-1-oxobutyl)-6-(3-methylbut-2-enyl)-2*H*-benzo[*b*]pyran-2-one 5 and 5,7-Dihydroxy-8-(2methyl-1-oxopropyl)-6-(3-methylbut-2-enyl)-4-phenyl-2*H*-benzo[*b*]pyran-2-one 6, are 8-acylcoumarins. Both compounds are on test for cytotoxic activity.