

Supporting Information

Figure S1. LC/MS analysis of 4'-OMe-resveratrol oxidation products. Extensively dialyzed COX-1 (10 μ M) was mixed with 20 μ M FePPIX and 500 μ M 4'-OMe-resveratrol (**2**) in 100 mM Tris-HCl (pH 8.0). The 500 μ L reactions were initiated with 1 mM H₂O₂ and incubated for 10 min at 25°C. The samples were immediately frozen on dry ice and stored at -80°C prior to LC/MS analysis. Aliquots (30 μ L containing 21.6 μ g of COX-1 and 15 nmoles of 4'-OMe-resveratrol) were injected onto a Phenomenex Spherisorb C₁₈ column (5 μ m; 4.6 x 250 mm) and analyzed in system 2 with in-line MS analysis. (A) TIC chromatogram (m/z 100-800). (B) TIC for MS² analysis of m/z 481. (C) MS² spectrum of 4'-OMe-resveratrol dimer.

Figure S2. LC/MS analysis of 3,5-di-OMe-resveratrol oxidation products. Extensively dialyzed COX-1 (10 μ M) was mixed with 20 μ M FePPIX and 500 μ M 3,5-di-OMe-resveratrol (**3**) in 100 mM Tris-HCl (pH 8.0). The 500 μ L reactions were initiated with 1 mM H₂O₂ and incubated for 10 min at 25°C. The samples were immediately frozen on dry ice and stored at -80°C prior to LC/MS analysis. Aliquots (30 μ L containing 21.6 μ g of COX-1 and 15 nmoles of 3,5-di-OMe-resveratrol) were injected onto a Phenomenex Spherisorb C₁₈ column (5 μ m; 4.6 x 250 mm) and analyzed in system 2 with in-line MS analysis. (A) TIC chromatogram (m/z 100-800). (B) TIC for MS² analysis of m/z 509. (C) MS² spectrum of 3,5-di-OMe-resveratrol dimer.

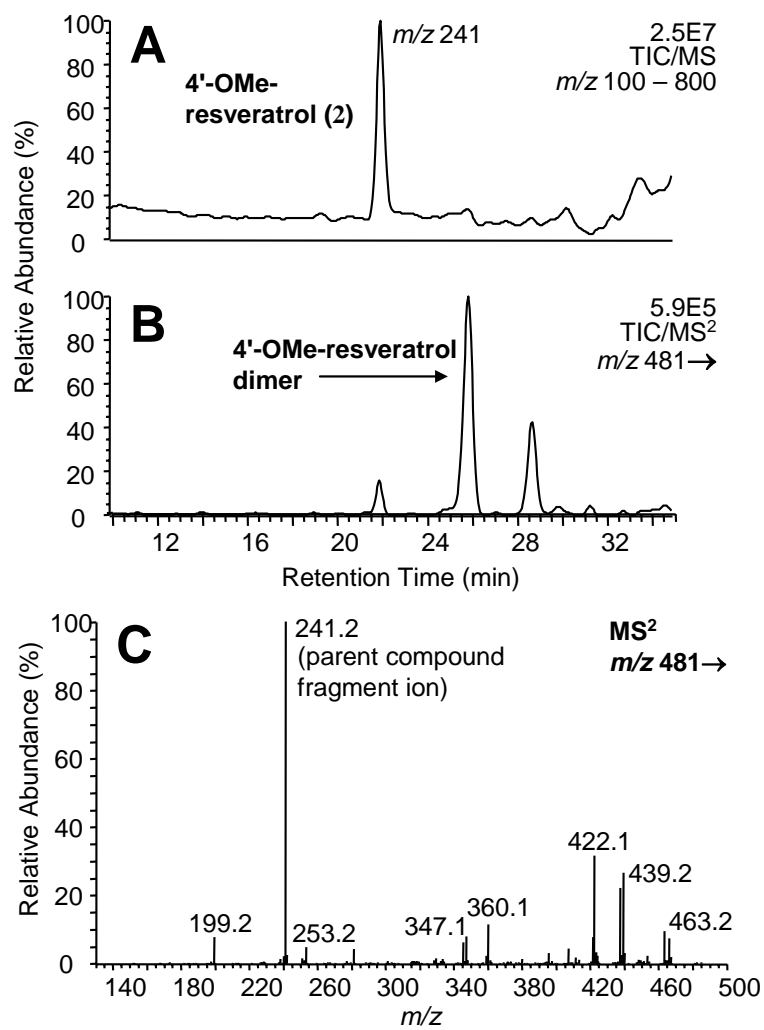


Figure S1

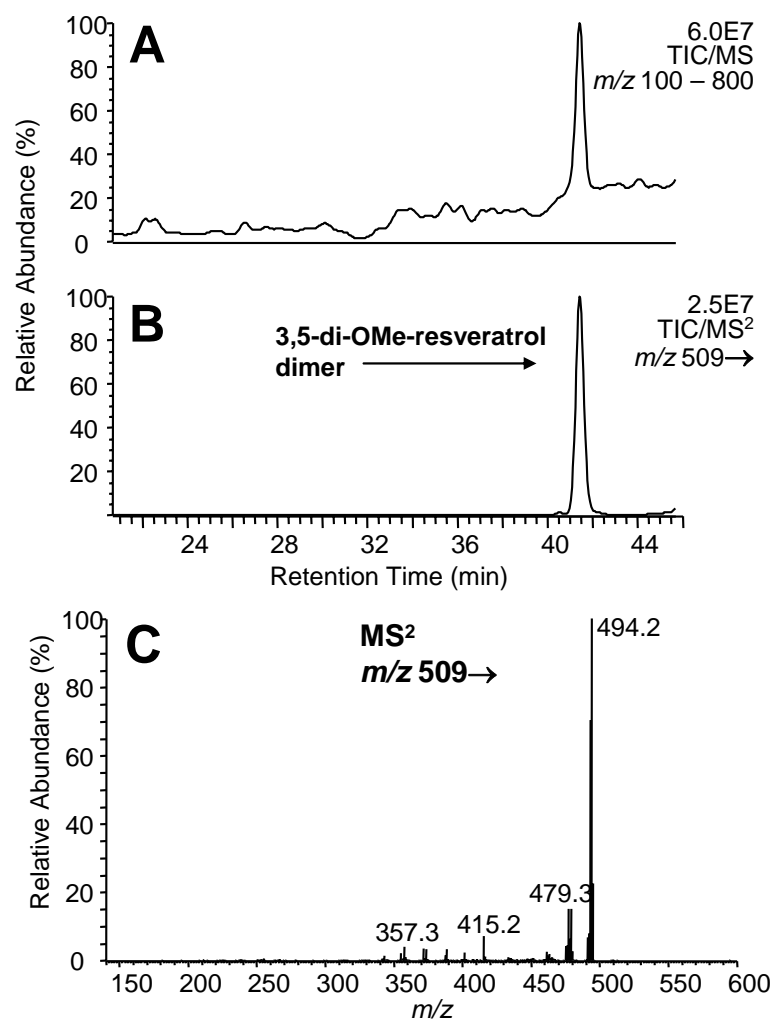


Figure S2