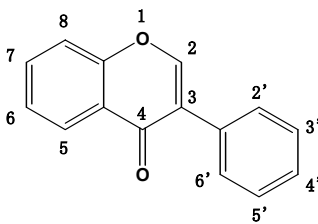
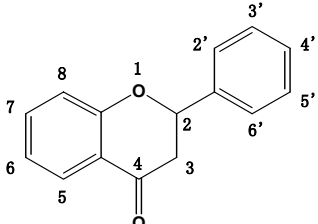
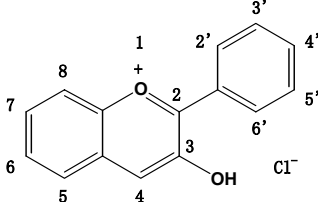


Supplementary Table 4. Effects of Isoflavones, Flavanones and Anthocyanidins (100 μ M) on SIRT1 Rate

Compound	Ratio to Control Rate Mean $\pm$ SE	Replicates	Structure Skeleton
Daidzein (7,4'- Dihydroxyisoflavone)	2.28 $\pm$ 0.74	2	 ISOFLAVONES
Genistein (5,7,4'- Trihydroxyisoflavone)	1.109 $\pm$ 0.026	2	
Naringenin (5,7,4'- Trihydroxyflavanone)	2.10 $\pm$ 0.23	6	
3,5,7,3',4'- Pentahydroxyflavanone	1.97 $\pm$ 0.22	5	 FLAVANONES
Flavanone	1.92 $\pm$ 0.24	6	
Pelargonidin chloride (3,5,7,4'- Tetrahydroxyflavylium chloride)	1.586 $\pm$ 0.037	2	
Cyanidin chloride (3,5,7,3',4'- Pentahydroxyflavylium chloride)	0.451 $\pm$ 0.015	2	 ANTHOCYANIDINS (Flavylium chloride salts)
Delphinidin chloride (3,5,7,3',4',5'- Hexahydroxyflavylium chloride)	0.4473 $\pm$ 0.0071	2	

Abbreviation: SE, Standard error of the mean. Rate measurements with 25 μ M NAD⁺ and 25 μ M p53-382 acetylated peptide substrate were performed as described in Methods. All ratio data were calculated from experiments in which the total deacetylation in the control reaction was 0.25-1.25 μ M peptide or 1-5% of the initial concentration of acetylated peptide.