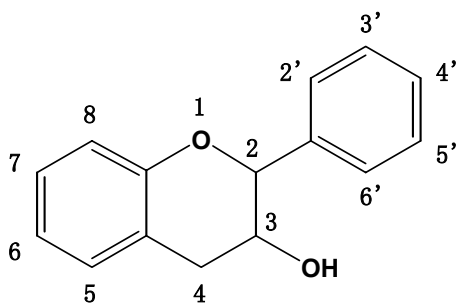
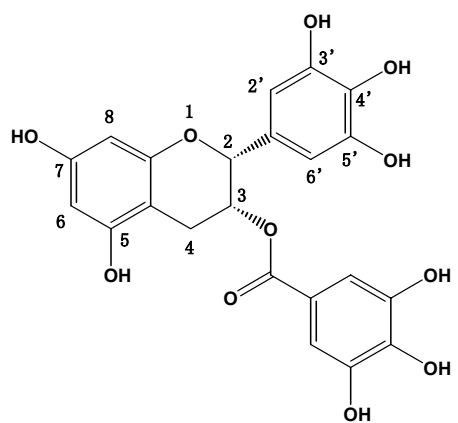


Supplementary Table 5. Effects of Catechins (Flavan-3-ols) (100 μ M) on SIRT1 Rate.

Compound	Ratio to Control Rate Mean $\pm$ SE	Replicates	Structure Skeleton/Structure
(-)-Epicatechin (Hydroxy Sites: 3,5,7,3',4')	1.53 $\pm$ 0.31	4	 CATECHINS (Flavan-3-ols)
(-)-Catechin (Hydroxy Sites: 3,5,7,3',4')	1.41 $\pm$ 0.21	4	
(-)-Gallocatechin (Hydroxy Sites: 3,5,7,3',4',5')	1.35 $\pm$ 0.25	4	
(+)-Catechin (Hydroxy Sites: 3,5,7,3',4')	1.31 $\pm$ 0.19	4	
(+)-Epicatechin (Hydroxy Sites: 3,5,7,3',4')	1.26 $\pm$ 0.20	4	
(-)-Epigallocatechin (Hydroxy Sites: 3,5,7,3',4',5')	0.41 $\pm$ 0.11	4	
(-)-Epigallocatechin Gallate (Hydroxy Sites: 3*,5,7,3',4',5'; *Position of gallate ester)	0.32 $\pm$ 0.12	4	

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.