

Flavonoids Enhance Lipofection Efficiency and Ameliorate Cytotoxicity in Colon26 and HepG2 Cells via Oxidative Stress Regulation

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Table S1. Partition coefficients of flavonoids

Flavonoids	Log P
Epigallocatechin	0.75-1.49*
Myricetin	1.42 [#]
Fisetin	1.81-2.03*
Quercetin	1.81-2.16*
Kaempferol	1.99-2.46*
Galangin	3.322 [#]
Naringenin	2.47-2.84*
Epigallocatechin gallate	2.38-3.08*

*: The University of Alberta and The Metabolomics Innovation Centre; #: PubChem, National Center for Biotechnology Information, National Institutes of Health.

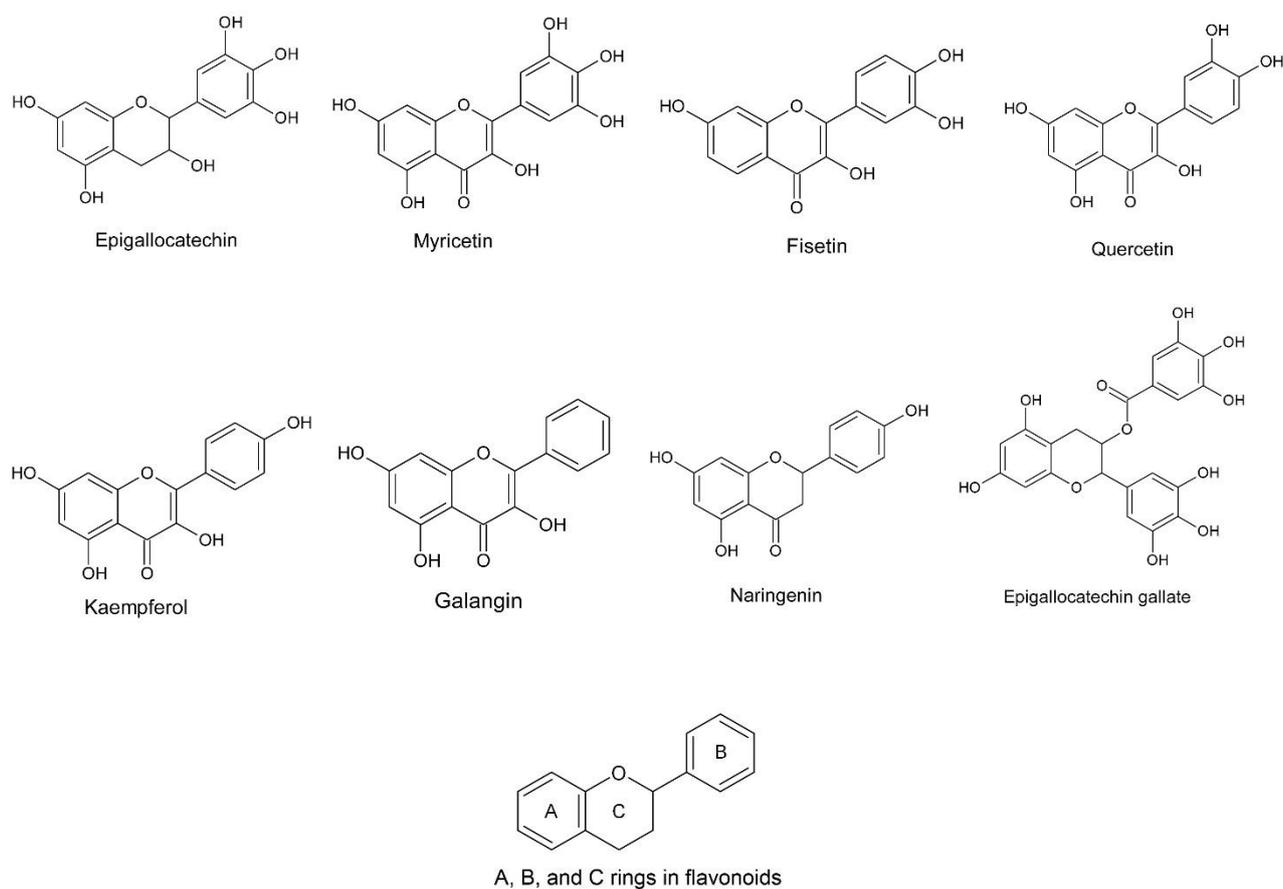


Figure S1. Chemical structures of flavonoids.

Table S2. Summary of gene expression promotion effect and characteristics of flavonoids

Flavonoids	Colon26 cells		HepG2 cells		Log P ^{*1}	Molecular weight	Number of OH			Total
	Fold increase	Conc. (μM)	Fold increase	Conc. (μM)			A ring ^{*2}	B ring ^{*2}	C ring ^{*2}	
Quercetin	8.4	25	7.6	25	1.81-2.16	302.236	2	2	1	5
Myricetin	4.8	2.5	6.3	1.25	1.42	318.235	2	3	1	6
Fisetin	5.9	6.25	4.1	3.13	1.81-2.03	286.236	1	2	1	4
Epigallocatechin	5.5	6.25	4.0	6.25	0.75-1.49	306.27	2	3	1	6
Galangin	7.1	12.5	2.1	25	3.322	270.24	2	0	1	3
Kaempferol	4.1	12.5	2.1	12.5	1.99-2.46	286.23	2	1	1	4
Naringenin	3.5	20	2.4	20	2.47-2.84	272.257	2	1	0	3
Epigallocatechin gallate	2.4	25	2.6	12.5	2.38-3.08	458.38	2	3	0	8

*1: Identical with Table S1. *2: Ring positions are indicated in Figure S1.