

表1. ダイオキシンによる毒性バイオアッセイ系活性化に対する各試料の抑制能

	EC <sub>70</sub> <sup>a)</sup> ( $\mu$ M)		EC <sub>70</sub> ( $\mu$ M)
<i>Flavones</i>		Phloroglucinolcarboxylic acid	nc
Apigenin	1.9	Protocatechuic acid	nc
Luteolin	1.8	Vanillin	nc
Baicalein	5.1	Eugenol	nc
Chrysin	0.7	Chlorogenic acid	nc
Apigenin	5.2	Ellagic acid	nc
Vitexin	nc <sup>b)</sup>	Brevifolincarboxylic acid	3.9
Baicalin	36.1	Curcumin	35.4
<i>Flavonols</i>		Rosmarinic acid	nc
Quercetin	2.7	Resveratrol	3.9
Kaempferol	2.1	<i>Anthraquinones and naphthoquinones</i>	
Myricetin	4.3	Emodin	0.6
Morin	5.3	Aloe-emodin	0.5
Quercitrin	nc	Alizarin	3.2
Rutin	nc	Senoside A	nc
Isoquercitrin	nc	Shikonin	5.6
Tiliroside	34.4	<i>Condensed tannins</i>	
Spiraeoside	2.1	(+)-Catechin	nc
<i>Flavanones</i>		(-)-Epicatechin	nc
Naringenin	27.7	(-)-Epigallocatechin	nc
Hesperetin	14.6	(-)-Epicatechin gallate	nc
Naringin	nc	(-)-Epigallocatechin gallate	nc
Hesperidin	nc	Procyanidin B1	nc
(+)-Taxifolin	nc	Procyanidin B2	nc
(+)-Fustin	nc	Procyanidin B4	nc
Naringin 4'-O-glucoside	nc	Procyanidin C1	nc
<i>Isoflavones</i>		Theaflavin	nc
Daidzein	nc	<i>Hydrolyzable tannins</i>	
Glycitein	nc	Pentagalloylglucose	29.6
Genistein	40.8	Pedunculagin	42.0
Daidzin	nc	Tellimagrandin I	12.4
Glycitin	nc	Geraniin	27.3
Genistin	nc	Casuarinin	29.3
6''-Acetyldaidzin	nc	Agrimoniin	6.4
6''-Malonyldaidzin	nc	Gemin A	31.5
6''-Malonylgenistin	nc	<i>Others</i>	
6''-Malonylglycitin	nc	Coumestrol	5.6
Equol	41.2	Carnosol	30.7
<i>Chalcones</i>		Glycyrrhetic acid	nc
Butein	nc	Glycyrrhizic acid	nc
Phloretin	nc	Ginsenoside Rb1	nc
Phloridzin	nc	Caffeine	nc
<i>Phenolcarboxylic acids and related compounds</i>		Theophylline	nc
<i>p</i> -Hydroxybenzoic acid	nc	Capsaicin	28.1
Caffeic acid	nc	Piperine	2.7
<i>trans</i> -Ferulic acid	nc	$\beta$ -Sitosterol	nc
<i>trans</i> -Cinnamic acid	nc	Ginkgolide A	nc
<i>p</i> -Coumaric acid	nc	Lycopene	nc
Gallic acid	nc	Limonin	nc
Methyl gallate	nc	$\beta$ -Carotene	nc

各試料 2 または 3 回測定.

a) 試料無添加時の TCDD による AhR リガンド活性を 100%とした時、70%に活性を抑制する各試料の濃度.

b) Not calculated; EC<sub>70</sub> レベルの抑制効果が認められなかった.

## 研究成果の刊行に関する一覧表

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雑誌

	発表者氏名	論文タイトル	発表誌名	巻号	ページ	出版年
1	Amakura, Y., Tsutsumi, T., Sasaki, K., Yoshida, T., Maitani, T.	Screening of the inhibitory effect of vegetable constituents on the AhR-mediated activity induced by 2,3,7,8-tetrachlorodibenzo-p-dioxin	Biol. Pharm. Bull.	26	1754-1760	2003
2	Toyoda, M., Nishida, K., Tagata, H., Kawakami, H., Nagasaki, T., Nakamura, M., Yabushita, H., Murata, H., Amakura, Y., Tsutsumi, T., Sasaki, K.	Application of the CALUX™ assay to the analysis of DXNs in a composite from sushi samples (the third report)	Organohalogen Compounds	60	251-254	2003
3	Amakura, Y., Tsutsumi, T., Nakamura, M., Sasaki, K., Yoshida, T., Maitani, T.	Interaction of some plant food extracts with aryl hydrocarbon receptor determined by in vitro reporter gene assay	Natural Medicines	58	31-33	2004
4	Tsutsumi, T., Amakura, Y., Okuyama, A., Mizukami, H., Tanioka, Y., Ueda, K., Sakata, K., Sasaki, K., Maitani, T.	Applicability of ELISA to screen for dioxin-like PCBs in retail fish	Organohalogen Compounds	66	603-607	2004

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