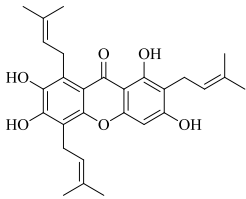
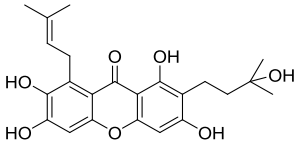
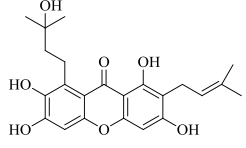
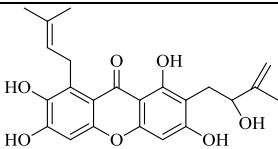
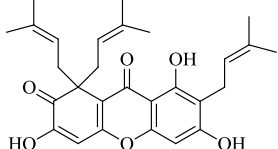
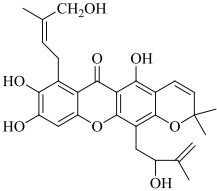
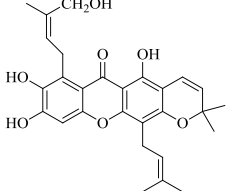
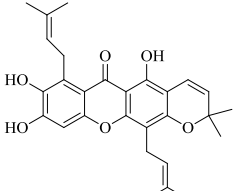
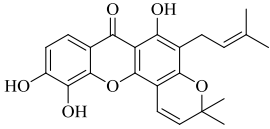
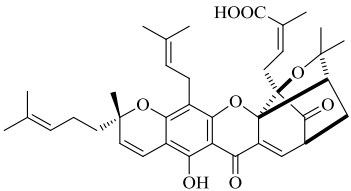
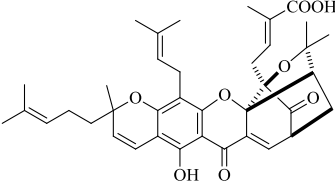
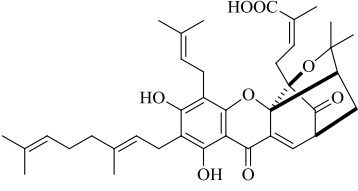
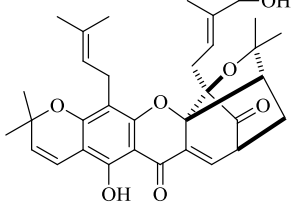
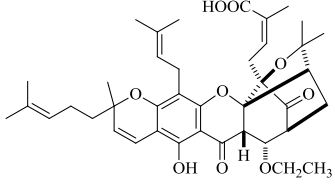
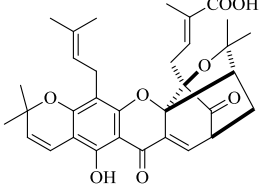
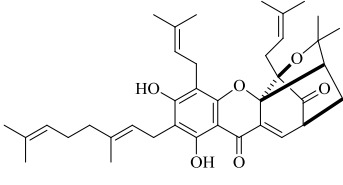
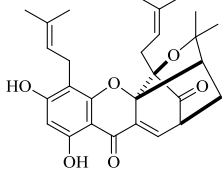
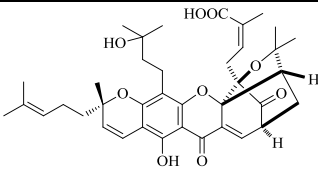
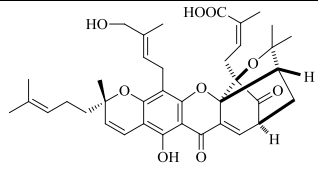
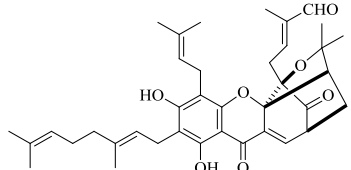
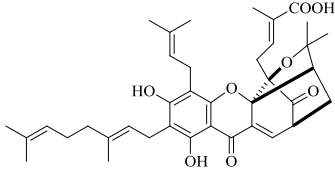
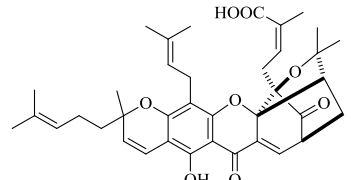
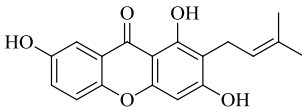
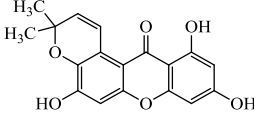
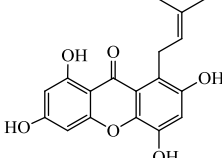
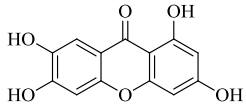
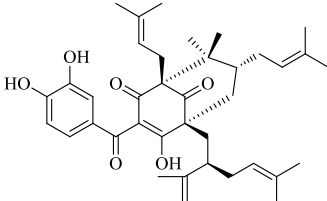
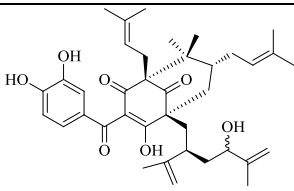
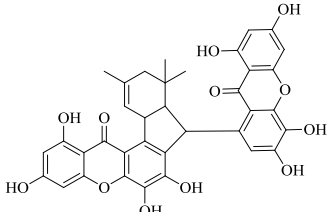
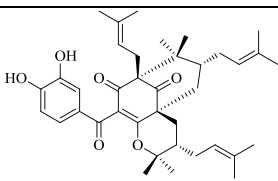
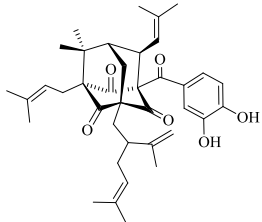
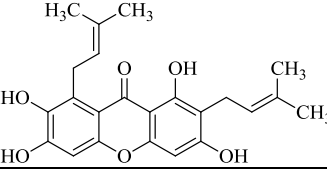
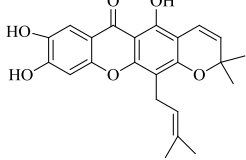


Table S1: Source and structure for 64 compounds from Garcinia plant

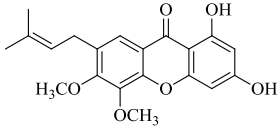
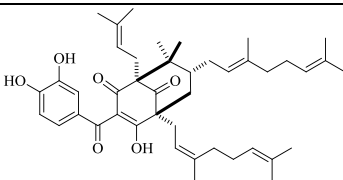
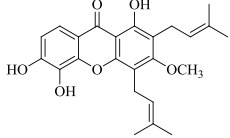
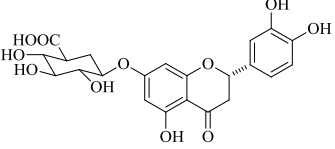
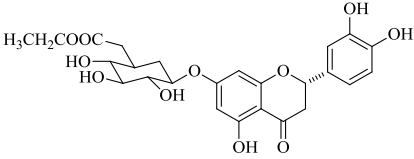
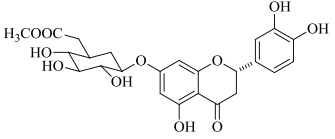
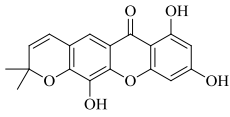
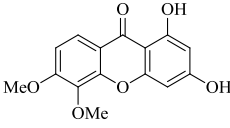
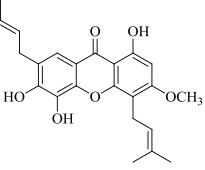
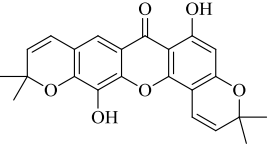
Compound	Name	Source	Structure
bn-1	Garcinone E	<i>Garcinia xishuanbannaensis</i>	
bn-10	1,3,6,7-tetrahydroxy-8-(3-methylbut-2-enyl)xanthone	<i>Garcinia xishuanbannaensis</i>	
bn-16	Garcinone C	<i>Garcinia xishuanbannaensis</i>	
bn-17	Bannaxanthone B	<i>Garcinia xishuanbannaensis</i>	
bn-2	Allanxanthone C	<i>Garcinia xishuanbannaensis</i>	
bn-21	Bannaxanthone G	<i>Garcinia xishuanbannaensis</i>	
bn-3	Bannaxanthone E	<i>Garcinia xishuanbannaensis</i>	
bn-4	Bannaxanthone D	<i>Garcinia xishuanbannaensis</i>	

C-6	1,5,6-Trihydroxy-2-prenyl-6',6'-dimethyl-2 <i>H</i> -pyrano(2',3':3,4)xanthone	<i>Garcinia cowa</i>	
GB11	<i>S</i> -gambogic acid	<i>Garcinia hanburyi</i>	
GB14	<i>R/S</i> -isogambogic acid	<i>Garcinia hanburyi</i>	
GB16	Gambogenic acid	<i>Garcinia hanburyi</i>	
GB18	Isomorellinol	<i>Garcinia hanburyi</i>	
GB19	Gambogic acid B	<i>Garcinia hanburyi</i>	
GB27	Isomorellic acid	<i>Garcinia hanburyi</i>	
GB32	Desoxygambogenin	<i>Garcinia hanburyi</i>	

GB35	Forbesione	<i>Garcinia hanburyi</i>	
GB39	S-33-hydroxygambogic acid	<i>Garcinia hanburyi</i>	
GB40	S-35-hydroxygambogic acid	<i>Garcinia hanburyi</i>	
GB49	Isogambogenin	<i>Garcinia hanburyi</i>	
GB63	Isogambogenic acid	<i>Garcinia hanburyi</i>	
GB8	R/S-gambogic acid	<i>Garcinia hanburyi</i>	
Ge-1	1,3,7-trihydroxy-2-(3-methylbut-2-enyl)-xanthone	<i>Garcinia esculenta</i>	
Ge-10	Toxyloxanthone B	<i>Garcinia esculenta</i>	
Ge-15	1,3,5,7-tetrahydroxy-8-isoprenyl xanthone	<i>Garcinia esculenta</i>	

Ge-17	1,3,6,7-tetrahydroxyxanthone	<i>Garcinia esculenta</i>	
Ge23	Guttiferone F	<i>Garcinia esculenta</i>	
Ge27	Garcimultiflorone E	<i>Garcinia esculenta</i>	
Ge-3	Griffipavixanthone	<i>Garcinia esculenta</i>	
Ge-6	Cambogin	<i>Garcinia esculenta</i>	
Ge6-3	Garciniagifolone A	<i>Garcinia esculenta</i>	
Ge9	$\gamma$ -mangostin	<i>Garcinia esculenta</i>	
gl-11-1	1,6,7-trihydroxy-6,6'-dimethyl-2H-pyrano(2',3':,3,2)-4-(3-methylbut-2-enyl)xanthone	<i>Garcinia lancilimba</i>	

gl-12	Nigrolineaxanthone V	<i>Garcinia lancilimba</i>	
gl-14	30-epicambogin	<i>Garcinia lancilimba</i>	
gl-16	1,3,5-trihydroxy- 6-methoxy-7-prenylxanthone	<i>Garcinia lancilimba</i>	
gl-17	1,5,6-trihydroxy- 3-methoxy- 4-prenylxanthone	<i>Garcinia lancilimba</i>	
gl-18	Isojacareubin	<i>Garcinia lancilimba</i>	
gl-20	1,7-dihydroxyxanthone	<i>Garcinia lancilimba</i>	
gl-23	1,5,6-trihydroxyxanthone	<i>Garcinia lancilimba</i>	
gl-25	Macurin	<i>Garcinia lancilimba</i>	
gl-34	Taxfolin	<i>Garcinia lancilimba</i>	

gl-6	1,3-dihydroxy- 5,6-dimethoxy- 7-prenylxanthone	<i>Garcinia lancilimba</i>	
gl-7	(+) guttiferone B	<i>Garcinia lancilimba</i>	
gl-9	Dulxanthone B	<i>Garcinia lancilimba</i>	
gly-2	(2S)-eriodictyol-7-O-β-D-glucopyranosiduronic acid	<i>Garcinia lancilimba</i>	
gly-3	(2S)-eriodictyol 7-O-β-D-glucuronide ethyl ester	<i>Garcinia lancilimba</i>	
gly-5	(2S)-eriodictyol 7-O-β-D-glucuronide methyl ester	<i>Garcinia lancilimba</i>	
Go-11	1,3,5-trihydroxy-13,13-dimethyl-2H-pyran(7,6-b) xanthone	<i>Garcinia oblongifolia</i>	
Go-14	Leiaxanthone	<i>Garcinia oblongifolia</i>	
Go-15	Parvifolixanthone B	<i>Garcinia oblongifolia</i>	
Go-16	Rheediaxanthone A	<i>Garcinia oblongifolia</i>	

Go-23	Oblongixanthone C	<i>Garcinia oblongifolia</i>	
Go-24	Oblongifolin C	<i>Garcinia oblongifolia</i>	
Go-24a	Oblongifolin D	<i>Garcinia oblongifolia</i>	
Go-9	Nigrolineaxanthone T	<i>Garcinia oblongifolia</i>	
Gof1	Garcihombronone D	<i>Garcinia oblongifolia</i>	
Gof3	Euxanthone	<i>Garcinia oblongifolia</i>	
Gxc-3	Xanthone V1	<i>Garcinia cowa</i>	
Gxy-11	Oblongifolin A	<i>Garcinia yunnanensis</i>	
Gxy-4	Guttiiferone K	<i>Garcinia yunnanensis</i>	
N-7	Nujiangexanthone A	<i>Garcinia nujiangensis</i>	

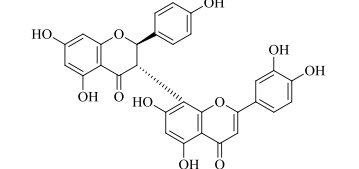
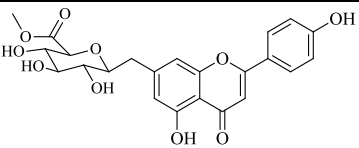
WZ-4	Moreloflavone	<i>Garcinia yunnanensis</i>	
WZ-6	Apigenin-7-O- $\beta$ -D-glucuronide methyl ester	<i>Garcinia yunnanensis</i>	

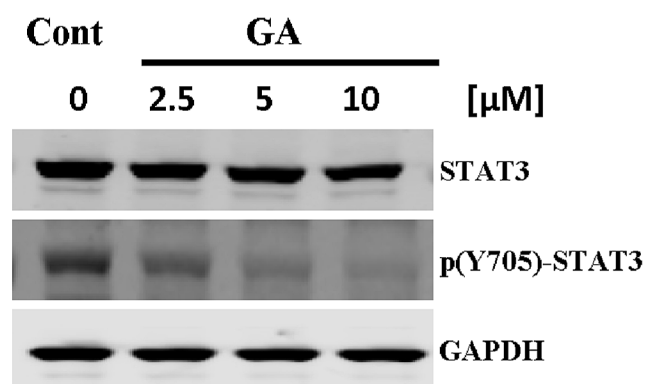


Table S2: Percent Inhibition data of 64 compounds at the 20 micromolar against 36 cancer cell lines in pre-screen study.

Cell Type\Compound	bn-1	bn-10	bn-16	bn-17	bn-2	bn-21	bn-3	bn-4	C-6	GB11	GB14	GB16	GB18	GB19	GB27	GB32	GB35	GB39	GB40	GB49	GB63	GB8	Ge-1	Ge-10	Ge-15	Ge-17	Ge-23	Ge-27	Ge-3	Ge-6	Ge-6-3	Ge-9	g <sup>8</sup> -11-1	g <sup>8</sup> -11-1	g <sup>8</sup> -12	g <sup>8</sup> -14	g <sup>8</sup> -16	g <sup>8</sup> -17	g <sup>8</sup> -18	g <sup>8</sup> -20	g <sup>8</sup> -23	g <sup>8</sup> -25	g <sup>8</sup> -34	g <sup>8</sup> -6	g <sup>8</sup> -7	g <sup>8</sup> -9	g <sup>8</sup> -2	g <sup>8</sup> -3	g <sup>8</sup> -5	Go-11	Go-14	Go-15	Go-16	Go-23	Go-24	Go-24a	Go-9	Gof1	Gof3	Goc-3	Gcy-11	Gcy-4	N-7	WZ-4	WZ-6
Lung	A498	98	25	65	54	34	60	96	84	10	98	97	100	93	99	88	93	99	98	88	98	99	54	33	46	41	45	53	78	97	98	98	-2	11	95	34	75	74	38	3	-10	2	47	51	86	-7	-4	-12	37	-2	78	12	94	81	43	64	6	39	90	65	74	13	4	13	
	ChaGo-K-1	99	18	91	73	75	95	97	93	7	98	98	99	99	99	98	99	99	100	98	99	100	99	44	26	36	22	55	77	97	98	98	97	-17	38	96	57	87	91	57	-22	-26	-3	59	94	97	-33	-13	-10	75	-16	11	9	94	97	94	94	-21	12	99	89	97	4	-14	-16
	MSTO-211-H	98	4	93	70	72	90	98	94	1	98	97	100	99	99	99	99	99	100	98	99	99	100	44	48	34	74	50	76	96	99	93	98	0	-5	97	61	79	85	59	-25	-30	-9	16	89	98	7	-3	-6	66	11	69	34	95	97	91	92	14	36	98	82	95	-1	6	6
	NCI-H1623	91	-10	67	20	49	72	95	80	-13	98	98	99	99	99	98	99	100	99	99	99	99	9	12	-16	2	-2	10	94	99	98	91	16	5	97	18	41	77	-13	0	0	-7	14	83	85	6	8	7	-10	-10	78	33	92	98	94	63	-13	-7	88	63	81	-8	-15	-8	
	NCI-H1694	100	28	99	96	99	100	99	97	19	99	98	100	99	99	99	100	100	99	100	100	100	49	32	68	99	50	95	99	100	99	99	1	28	99	55	98	98	86	-9	-12	10	46	100	100	-10	1	-2	73	-3	97	5	98	99	100	100	25	29	100	100	100	25	-10	-9	
	NCI-H1770	93	0	87	12	90	94	98	75	5	98	97	100	99	99	99	99	100	100	99	99	99	100	13	3	-4	72	8	45	92	99	99	98	12	34	99	21	40	89	-4	-11	-10	0	23	99	93	-4	-10	-6	38	-4	75	25	98	99	98	53	11	17	96	91	98	-6	-10	-1
	NCI-H2347	79	9	73	23	40	75	89	53	7	98	97	98	97	98	93	98	97	99	98	98	98	99	32	22	10	4	29	54	60	71	74	89	5	9	74	42	86	84	48	-8	-13	2	22	63	82	-2	4	1	10	-2	51	-8	68	59	58	52	0	20	80	66	67	-18	-4	-3
Breast	NCI-H2405	93	-8	73	7	40	80	96	92	-5	98	97	99	99	99	98	99	99	100	99	99	99	99	7	-4	-11	-5	-5	11	86	99	98	96	5	11	98	12	19	66	-5	-14	-9	-5	25	81	93	-2	-3	5	3	-10	50	27	98	98	88	72	-13	-13	93	70	95	-7	-14	-12
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	BT-474	87	-3	83	27	22	88	90	83	-18	98	98	99	99	99	98	99	99	100	99	99	99	99	30	-25	9	-7	3	25	94	91	84	97	-18	-2	94	16	89	92	50	-16	-3	-15	25	66	94	-18	-24	-15	31	-23	82	-6	70	83	68	77	-21	7	94	56	80	-21	-5	-12
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Uterus	Colo 205	98	19	97	57	69	100	99	93	3	98	98	99	99	99	99	99	100	100	99	100	99	99	29	16	21	3	47	93	99	97	98	98	6	10	98	57	97	96	3	-5	-1	1	43	99	97	-6	-6	-4	11	8	89	4	96	97	98	70	1	22	99	97	99	9	-6	4
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Brain	CCF-STTG1	89	8	65	43	52	68	93	86	16	98	98	99	99	99	99	99	100	100	99	99	99	99	43	18	17	15	30	42	94	87	92	99	12	16	87	25	74	81	49	-1	9	4	45	72	92	1	-4	8	44	-1	84	22	87	77	55	91	11	31	92	69	82	6	0	-3
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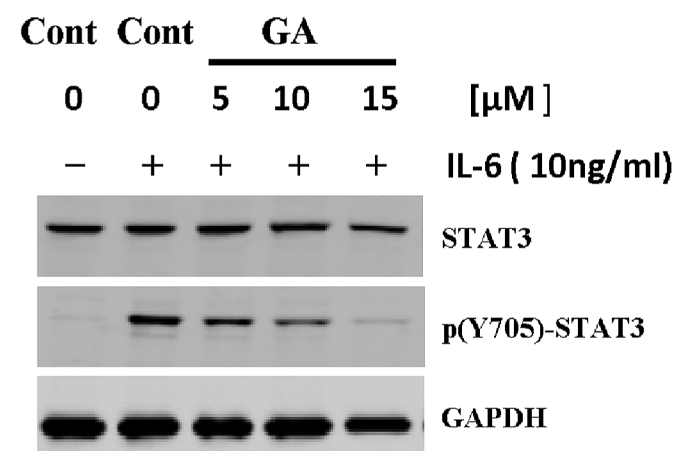
**Figure S1**

**A.**



**NCI-H1650**

**B.**



**HepG2**