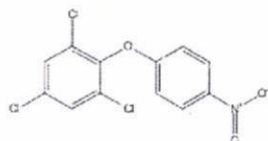
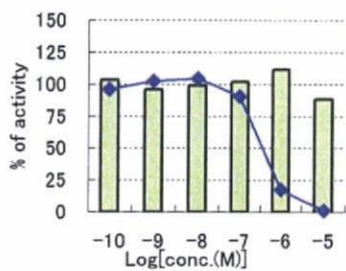
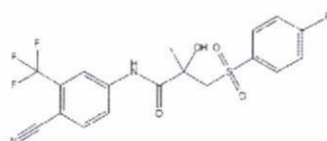
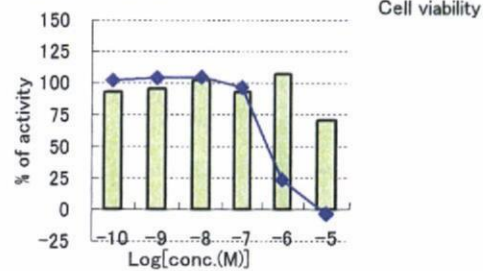


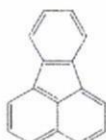
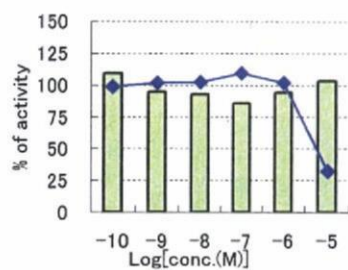
ED0864 Chlornitrofen



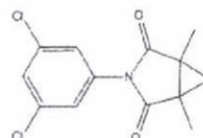
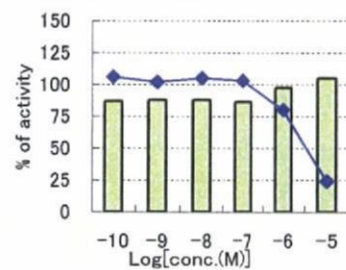
ED0865 Bicalutamide



ED0866 Fluoranthene



ED0867 Procymidone



ED0869 Mifepristone(RU486)

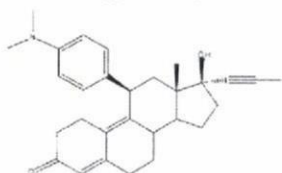
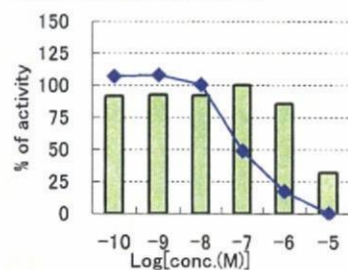
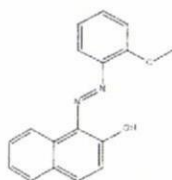
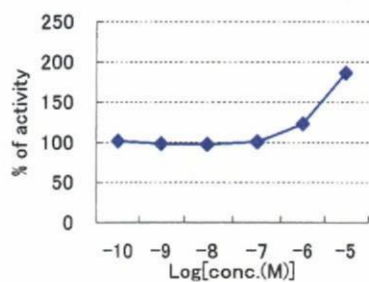


図2 ARアンタゴニスト活性とその化学構造 (その2)

縦軸は相対活性 (5×10^{-10} M における DHT の活性を 100)、横軸は濃度を示す。

ED0804 1-(2-methoxyphenylazo)-2-naphthol



ED0815 1,1':3',1'-Terphenyl

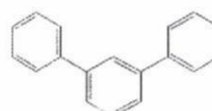
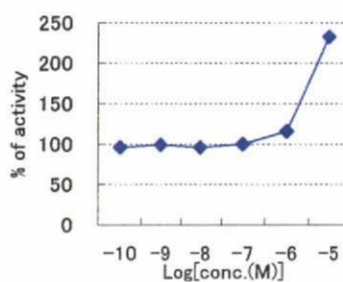
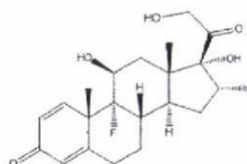
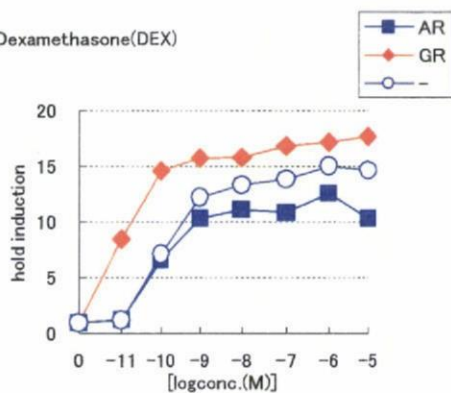


図3 hyper-induction 活性を示した化合物

縦軸は相対活性 (5x10⁻¹⁰ M における DHT の活性を 100)、横軸は濃度を示す。

Dexamethasone(DEX)



5-alpha-dihydrotestosterone(DHT)

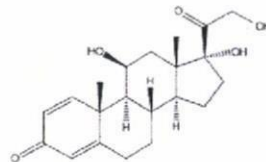
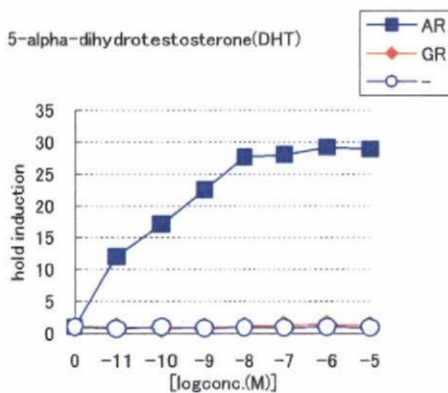


図4 AR、GR アゴニスト活性特異性の検討(その1)

(縦軸: DMSO コントロールのルシフェラーゼ活性を 1 とした時のルシフェラーゼ誘導活性、横軸は濃度を示す)

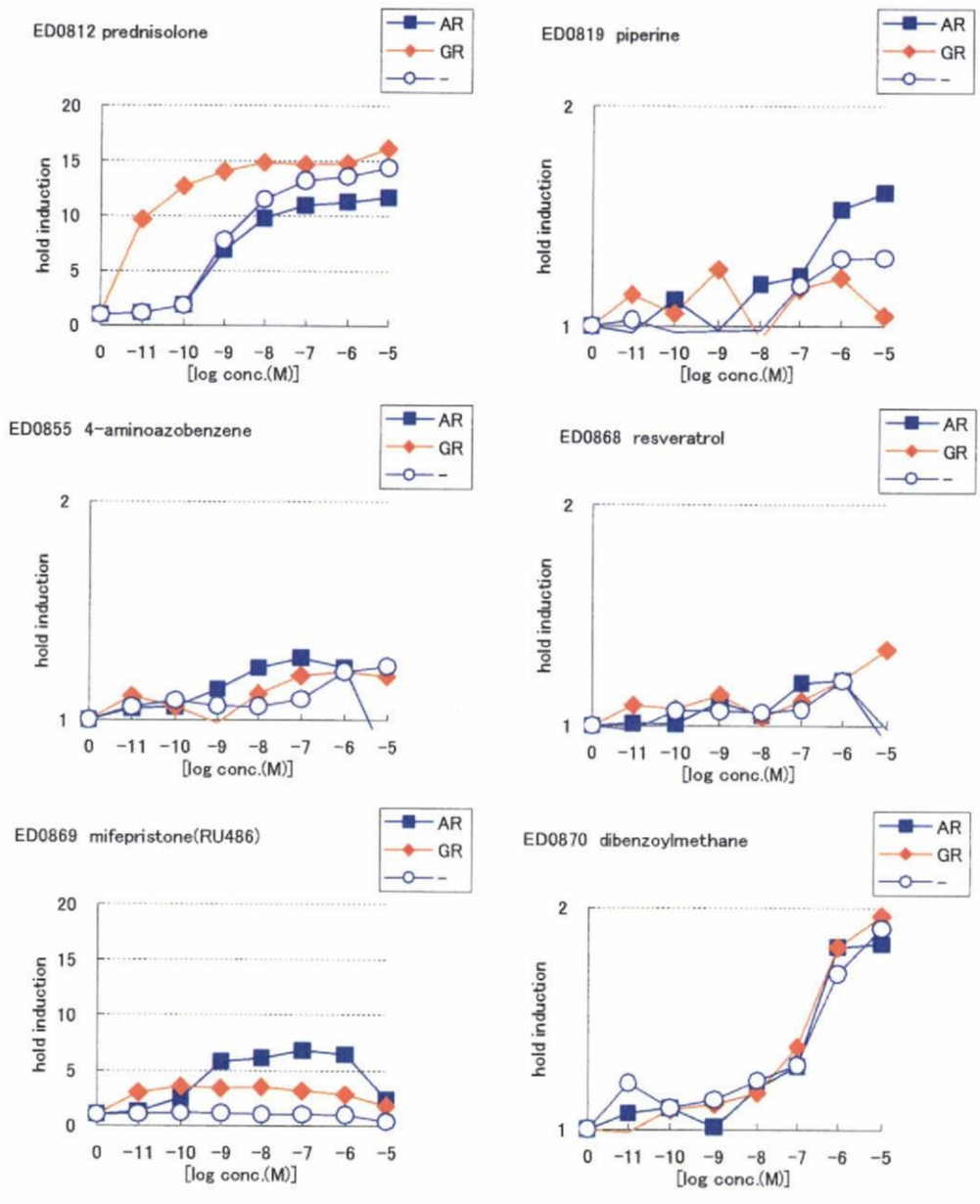
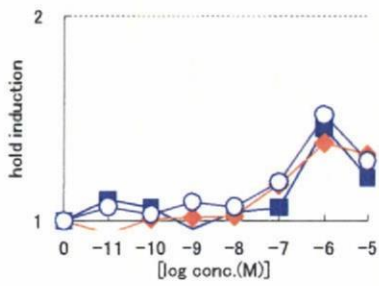


図4 AR、GR アゴニスト活性特異性の検討(その2)

(縦軸: DMSO コントロールのルシフェラーゼ活性を1とした時のルシフェラーゼ誘導活性、横軸は濃度を示す)

ED0804 1-(2-methoxyphenylazo)-2-naphthol



ED0815 1,1':3,1'-Terphenyl

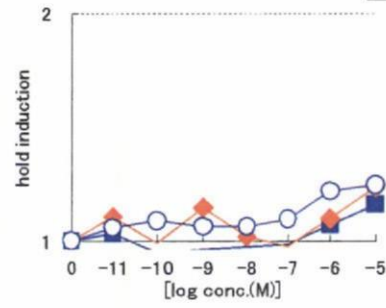


図4 AR、GR アゴニスト活性特異性の検討(その3)

(縦軸：DMSO コントロールのルシフェラーゼ活性を1とした時のルシフェラーゼ誘導活性、横軸は濃度を示す)

付録 物質一覧 (その1)

Assay ID	CAS No	Chemical Name
ED0801	140-57-8	Aramite
ED0802	50-14-6	Ergocalciferol
ED0803	1330-78-5	Tricresyl phosphate
ED0804	1229-55-6	1-(2-Methoxyphenylazo)-2-naphthol
ED0805	122-11-2	4-Amino-N-(2,6-dimethoxy-4-pyrimidinyl)benzenesulf
ED0806	4306-88-1	Phenol, 2,6-bis(1,1-dimethylethyl)-4-nonyl-
ED0807	50-33-9	Phenylbutazone
ED0808	85-60-9	4,4'-Butylidenebis(6-tert-butyl-m-cresol)
ED0809	57808-65-8	Cloasantel
ED0810	458-37-7	Curcumin
ED0811	150-86-7	2-Hexadecen-1-ol, 3,7,11,15-tetramethyl-, (2E,7R,11R)-
ED0812	50-24-8	Prednisolone
ED0813	119-90-4	Dianisidine
ED0814	2312-35-8	Propargite
ED0815	92-06-8	1,1':3',1''-Terphenyl
ED0816	116-66-5	1h-Indene, 2,3-dihydro-1,1,3,3,5-pentamethyl-4,6-d
ED0817	3179-89-3	Ethanol, 2,2'+4-(P-nitrophenylazo)-m-tolylimino_d
ED0818	145-39-1	Musk tibetine
ED0819	94-62-2	Piperine
ED0820	4674-50-4	2(3h)-Naphthalenone, 4,4a,5,6,7,8-hexahydro-4,4a-d
ED0821	1910-42-5	Paraquat dichloride
ED0822	4080-98-2	Dodecanedioic acid, 1,12-dihydrazide
ED0823	78-34-2	Dioxathion
ED0824	4390-04-9	2,2,4,4,6,8,8-Heptamethylnonane
ED0825	7320-37-8	Tetradecyloxirane
ED0826	1139-30-6	4,12,12-Trimethyl-9-methylene-5-oxatricyclo[8.2.0.
ED0827	112-90-3	cis-9-Octadecenylamine
ED0828	67564-91-4	Fenpropimorph
ED0829	20324-33-8	Tripropyleneglycol monomethyl ether
ED0830	58207-19-5	Clindamycin hydrochloride Monohydrate
ED0831	901-44-0	Ethanol, 2,2'-(1-methylethylidene)bis(4,1-phenyle
ED0832	75980-60-8	Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide
ED0833	4419-11-8	Pentanenitrile, 2,2'-Azobis+2,4-dimethyl-
ED0834	15647-08-2	Phosphorous acid, 2-Ethylhexyl diphenyl ester
ED0835	520-26-3	4H-1-Benzopyran-4-one, 7-[[6-O-(6-deoxy- α -L-mannopyranosyl)- β -D-glucopyranosyl]oxy]
ED0836	6119-47-7	Quinine, monohydrochloride
ED0837	925-83-7	Decanedioic acid, dihydrazide
ED0838	27776-21-2	1H-Imidazole, 2,2'-[azobis(1-methylethylidene)]bis[4,5-dihydro-, dihydrochloride
ED0839	502-61-4	1,3,6,10-Dodecatetraene, 3,7,11-trimethyl-, (3E,6E)-
ED0840	495-62-5	Cyclohexene, 4-(1,5-dimethyl-4-hexenylidene)-1-methyl-
ED0841	3452-97-9	3,5,5-Trimethyl-1-hexanol
ED0842	18479-49-7	1-Octen-3-ol, 3,7-dimethyl-
ED0843	20702-77-6	Neohesperidin dihydrochalcone
ED0844	87-44-5	Beta-Caryophyllene
ED0845	29911-27-1	2-Propanol, 1-(1-methyl-2-propoxyethoxy)-
ED0846	5281-04-9	Pigment red 57:1
ED0847	15233-47-3	N-(1-methylheptyl)-N'-phenyl-p-phenylenediamine
ED0849	698-76-0	2h-Pyran-2-one, tetrahydro-6-propyl-
ED0850	475-20-7	Longifolene

付録 物質一覧 (その2)

ED0851	42240-73-3	2,2',3,3'-Tetrachloro-4,4'-diaminodiphenylmethan
ED0852	538-75-0	N,N'-Methanetetraylbiscyclohexanamine
ED0853	4980-54-5	Benzoic acid, 4-(1,1-dimethylethyl)-, zinc salt
ED0854	88-26-6	3,5-Di-tert-butyl-4-hydroxybenzyl alcohol
ED0855	60-09-3	4-Aminoazobenzene
ED0856	957-51-7	Diphenamid
ED0857	89-46-3	Menthyl salicylate
ED0858	127-41-3	alpha-Ionone
ED0859	67129-08-2	Metazachlor
ED0860	345909-26-4	Taurocholic acid sodium salt hydrate
ED0861	93-84-5	5-Nitro-2-benzimidazolinone
ED0862	92-59-1	N-Ethyl-N-phenylbenzylamine
ED0863	79-74-3	2,5-Di-t-pentylhydroquinone
ED0864	1836-77-7	Chlornitrofen
ED0865	90357-06-5	Bicalutamide
ED0866	206-44-0	Fluoranthene
ED0867	32809-16-8	Procymidone
ED0868	501-36-0	Resveratrol
ED0869	84371-65-3	Mifepristone
ED0870	120-46-7	Dibenzoylmethane
ED0871	4979-32-2	N,N-Dicyclohexyl-2-benzothiazolesulfenamide

測定結果 一覧

AR レポータージーンアッセイ

70 物質

(ED0801～ED0871)

sample No. **ED0801**
 chemical name **Aramite**
 CAS. **140-57-8**

AR agonist assay

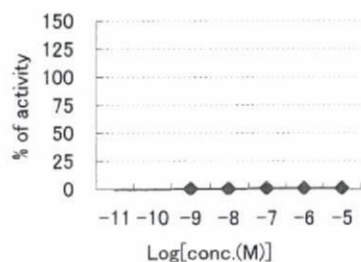
LOG[conc.(M)]	luc (%)
-5	0.6
-6	0.7
-7	0.5
-8	0.2
-9	-0.2
-10	-0.5
-11	-0.5

AR antagonist assay

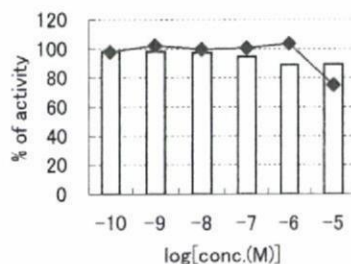
LOG[conc.(M)]	luc (%)	renilla (%)
-5	75	89
-6	103	89
-7	100	95
-8	99	97
-9	102	98
-10	98	98

□ cell viability

ED0801



ED0801



samle No. **ED0802**
 chemical name Ergocalciferol
 CAS. 50-14-6

AR agonist assay

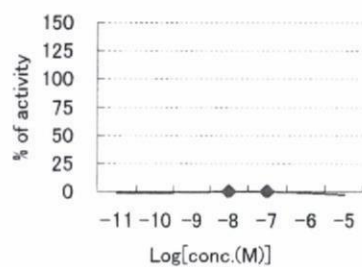
LOG[concc.(M)]	luc (%)
-5	-3.1
-6	-0.9
-7	0.0
-8	-0.1
-9	-0.8
-10	-1.0
-11	-1.0

AR antgonist assay

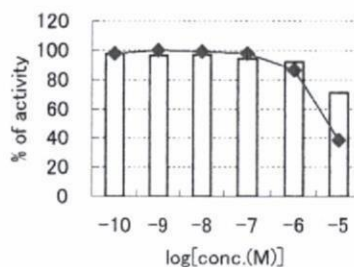
LOG[concc.(M)]	luc (%)	renilla (%)
-5	38	71
-6	87	92
-7	98	94
-8	99	97
-9	100	97
-10	98	97

□ cell viability

ED0802



ED0802



samle No. **ED0803**
 chemical name Tricresyl phosphate
 CAS. 1330-78-5

AR agonist assay

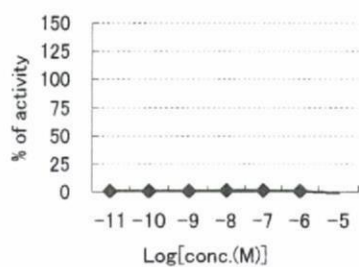
LOG[conc.(M)]	luc (%)
-5	-1.4
-6	0.5
-7	1.2
-8	0.9
-9	0.5
-10	0.4
-11	0.4

AR antagonist assay

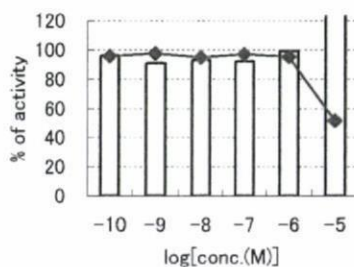
LOG[conc.(M)]	luc (%)	renilla (%)
-5	52	213
-6	95	99
-7	97	92
-8	95	93
-9	97	91
-10	96	96

□ cell viability

ED0803



ED0803



samle No. **ED0804**
 chemical name 1-(2-Methoxyphenylazo)-2-naphthol
 CAS. 1229-55-6

AR agonist assay

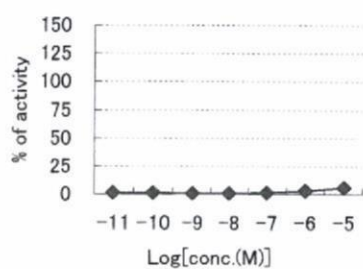
LOG[conc.(M)]	luc (%)
-5	5.8
-6	3.1
-7	0.9
-8	0.7
-9	0.6
-10	1.0
-11	1.0

AR antagonist assay

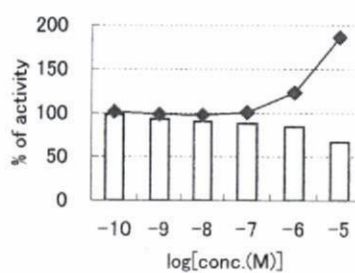
LOG[conc.(M)]	luc (%)	renilla (%)
-5	186	67
-6	123	85
-7	101	88
-8	98	90
-9	98	93
-10	101	98

□ cell viability

ED0804



ED0804



samle No. **ED0805**
 chemical name **4-Amino-N-(2,6-dimethoxy-4-pyrimidinyl)benzenesulf**
 CAS. **122-11-2**

AR agonist assay

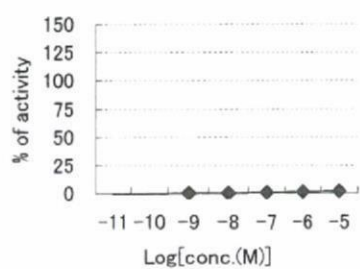
LOG[conc.(M)]	luc (%)
-5	1.6
-6	1.1
-7	0.8
-8	0.2
-9	0.0
-10	-0.8
-11	-0.8

AR antagonist assay

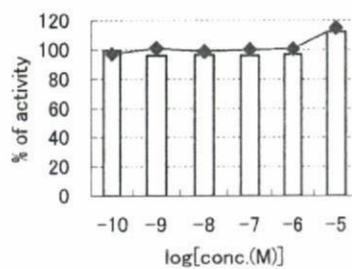
LOG[conc.(M)]	luc (%)	renilla (%)
-5	115	112
-6	101	97
-7	100	96
-8	99	96
-9	101	96
-10	97	100

□ cell viability

ED0805



ED0805



samle No. **ED0806**
 chemical name Phenol, 2, Phenol, 2,6-bis(1,1-dimethylethyl)-4-nonyl-
 CAS. 4306-88-1

AR agonist assay

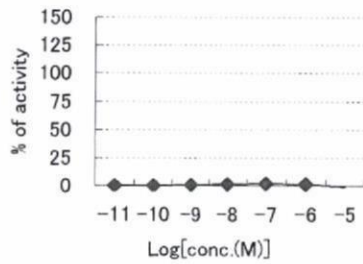
LOG[conc.(M)]	luc (%)
-5	-1.3
-6	0.9
-7	1.4
-8	1.0
-9	0.5
-10	0.0
-11	0.0

AR antagonist assay

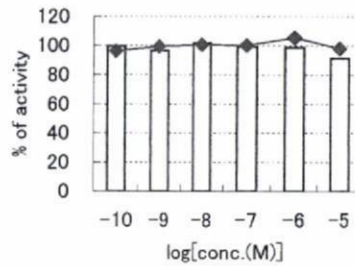
LOG[conc.(M)]	luc (%)	renilla (%)
-5	98	91
-6	105	98
-7	100	99
-8	100	102
-9	99	97
-10	96	100

□ cell viability

ED0806



ED0806



samle No. **ED0807**
 chemical name Phenylbutazone
 CAS. 50-33-9

AR agonist assay

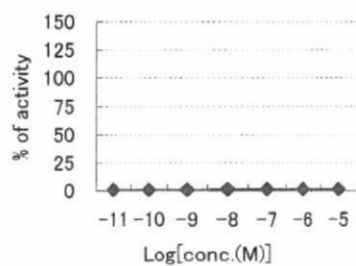
LOG[conc.(M)]	luc (%)
-5	1.2
-6	1.0
-7	1.3
-8	1.3
-9	0.6
-10	0.5
-11	0.5

AR antagonist assay

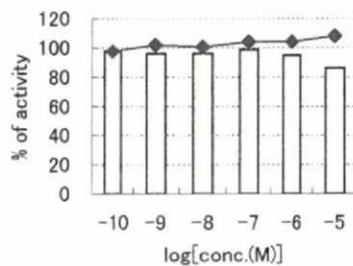
LOG[conc.(M)]	luc (%)	renilla (%)
-5	108	86
-6	104	95
-7	104	98
-8	100	96
-9	102	96
-10	97	98

□ cell viability

ED0807



ED0807



samle No. **ED0808**
 chemical name **4,4'-Butylidenebis(6-tert-butyl-m-cresol)**
 CAS: **85-60-9**

AR agonist assay

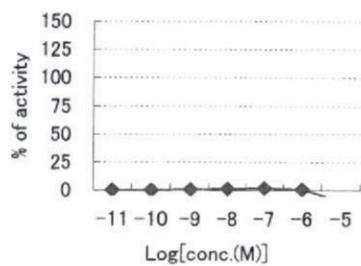
LOG[conc.(M)]	luc (%)
-5	-9.8
-6	0.8
-7	1.5
-8	1.4
-9	0.6
-10	0.0
-11	0.0

AR antagonist assay

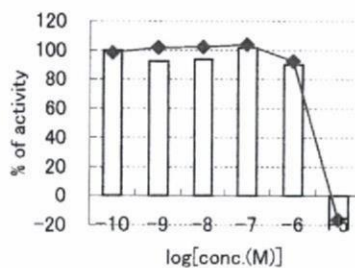
LOG[conc.(M)]	luc (%)	renilla (%)
-5	-16	-29
-6	92	90
-7	104	102
-8	102	94
-9	102	92
-10	98	100

□ cell viability

ED0808



ED0808



sample No. **ED0809**
 chemical name **Closantel**
 CAS. **57808-65-8**

AR agonist assay

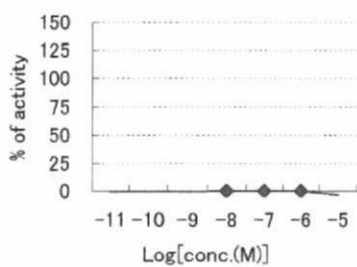
LOG[conc.(M)]	luc (%)
-5	-3.2
-6	0.1
-7	0.0
-8	0.0
-9	-0.3
-10	-0.8
-11	-0.8

AR antagonist assay

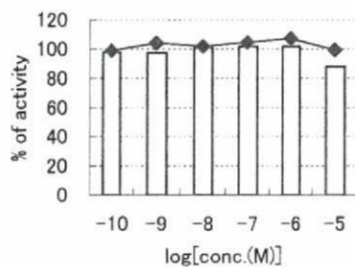
LOG[conc.(M)]	luc (%)	renilla (%)
-5	99	88
-6	107	102
-7	104	102
-8	102	101
-9	104	97
-10	99	98

□ cell viability

ED0809



ED0809



sample No. **ED0810**
 chemical name Curcumin
 CAS. 458-37-7

AR agonist assay

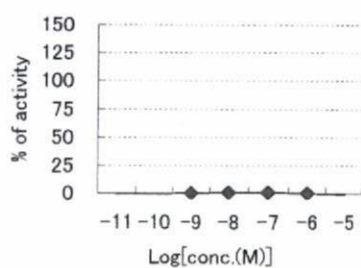
LOG[conc.(M)]	luc (%)
-5	-1.2
-6	0.1
-7	0.4
-8	0.5
-9	0.0
-10	-0.4
-11	-0.4

AR antagonist assay

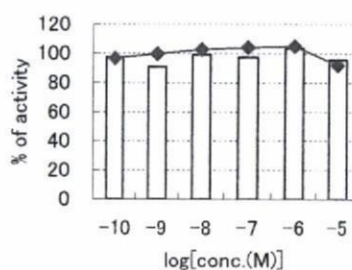
LOG[conc.(M)]	luc (%)	renilla (%)
-5	92	95
-6	105	104
-7	104	97
-8	103	99
-9	100	91
-10	96	97

□ cell viability

ED0810



ED0810



samle No. **ED0811**
 chemical name 2-Hexadecen-1-ol, 3,7,11,15-tetramethyl-, (2E,7R,11R)-
 CAS. 150-86-7

AR agonist assay

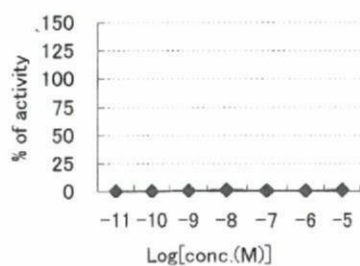
LOG[conc.(M)]	luc (%)
-5	1.1
-6	0.8
-7	0.6
-8	0.9
-9	0.4
-10	0.2
-11	0.2

AR antagonist assay

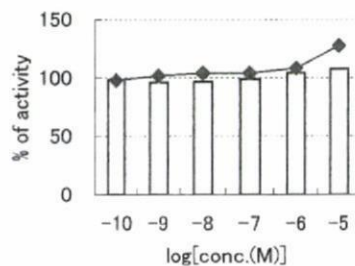
LOG[conc.(M)]	luc (%)	renilla (%)
-5	127	107
-6	108	104
-7	104	99
-8	104	97
-9	102	96
-10	97	98

□ cell viability

ED0811



ED0811



samle No. **ED0812**
 chemical name Prednisolone
 CAS. 50-24-8

AR agonist assay

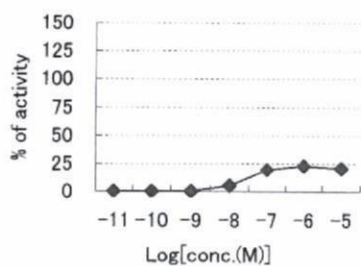
LOG[conc.(M)]	luc (%)
-5	20
-6	23
-7	19
-8	5
-9	0
-10	0
-11	0

AR antagonist assay

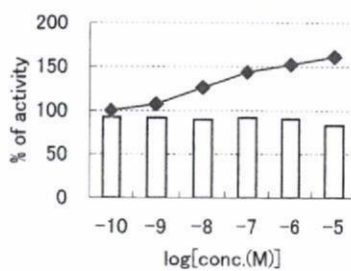
LOG[conc.(M)]	luc (%)	renilla (%)
-5	161	83
-6	152	90
-7	143	91
-8	126	90
-9	107	92
-10	99	93

□ cell viability

ED0812



ED0812



sample No. **ED0813**
 chemical name Dianisidine
 CAS. 119-90-4

AR agonist assay

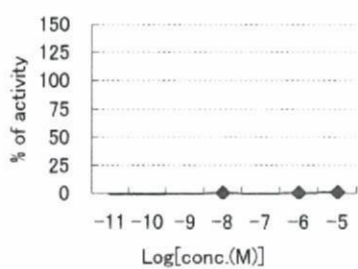
LOG[conc.(M)]	luc (%)
-5	0.7
-6	0.0
-7	-0.5
-8	-0.2
-9	-0.6
-10	-0.9
-11	-0.9

AR antagonist assay

LOG[conc.(M)]	luc (%)	renilla (%)
-5	122	88
-6	109	104
-7	103	107
-8	102	105
-9	102	102
-10	99	100

□ cell viability

ED0813



ED0813

