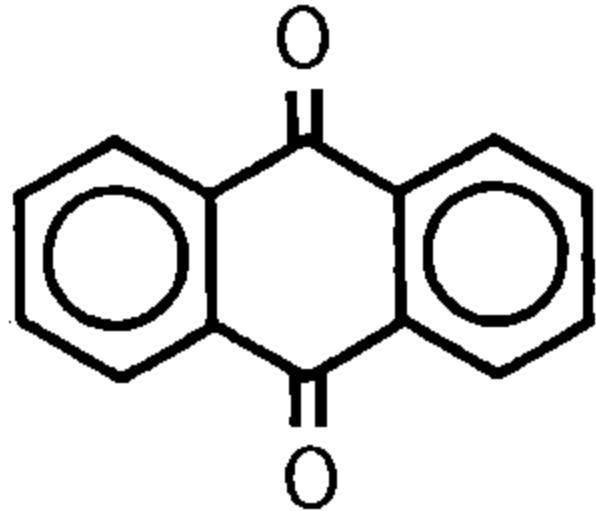


Anthraquinone (アントラキノン)

Experimental Data

Chemical Name: Anthraquinone Synonym: 9,10-Anthraquinone 9,10-Anthracenedione	Con. μg/ plate	Number of Revertants/plate									
		Base-substitution						Frame-shift			
		TA100		TA1535		WP2uvrA		TA98		TA1537	
		S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
Molecular weight: 208.22 Melting point: 284~286°C Boiling point: 377~381°C Flashing point: 185°C Chemical Structure	DMSO	(134)	(152)	(10)	(11)	(15)	(26)	(29)	(31)	(9)	(10)
		143	164	8	8	26	22	20	29	8	13
		128	171	10	8	26	20	31	40	7	7
	20	(136)	(168)	(9)	(8)	(26)	(21)	(26)	(35)	(8)	(10)
		134	187	8	10	13	30	26	39	6	7
		131	174	8	8	22	24	24	31	7	15
	39	(133)	(181)	(8)	(9)	(18)	(27)	(25)	(35)	(7)	(11)
		134	156	6	7	8	25	26	37	11	10
		153	193	7	7	22	26	24	31	10	9
	78	(144)	(175)	(7)	(7)	(15)	(26)	(25)	(34)	(11)	(10)
		123	177	10	20	18	16	33	36	8	11
		119	193	6	10	20	25	28	34	9	5
	156	(121)	(185)	(8)	(15)	(19)	(21)	(31)	(35)	(9)	(8)
		130	163	10	13	21	31	33	25	5	10
		158	160	10	10	16	29	21	21	11	13
	313	(144)	(162)	(10)	(12)	(19)	(30)	(27)	(23)	(8)	(12)
		139	204	9	8	16	13	23	29	10	8
		146	185	6	9	18	21	17	37	9	6
	625	(143)	(195)	(8)	(9)	(17)	(17)	(20)	(33)	(10)	(7)
		152	155	10	8	15	29	23	29	7	11
		145	192	6	8	17	24	32	39	2	6
	1250	(149)	(174)	(8)	(8)	(16)	(27)	(28)	(34)	(5)	(9)
		139	198	11	9	16	25	24	45	9	11
		130	179	11	6	17	23	24	32	10	8
	2500	(135)	(189)	(11)	(8)	(17)	(24)	(24)	(39)	(10)	(10)
		113	215	11	11	21	30	16	41	11	17
		124	228	8	11	16	30	26	32	3	8
	5000	(119)	(222)	(10)	(11)	(19)	(30)	(21)	(37)	(7)	(13)
Judgement		-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity											
Positive		AF2	2AA	NaN ₃	2AA	AF2	2AA 20	AF2	2AA	9AA	2AA
Control		(768)	(788)	(238)	(129)	(187)	(1466)	(382)	(358)	(428)	(145)

Mutagenicity
in Bacterial Test: Positive

IARC Evaluation: not yet cited

Experimental Data

Con. μ g/ plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvrA		TA98		TA1537	
	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
DMSO	(134)	(152)	(9)	(10)	(18)	(20)	(26)	(28)	(10)	(8)
	145	172	5	9	10	39	36	30	3	14
	131	164	11	15	17	21	34	28	8	8
313	(138)	(168)	(8)	(12)	(14)	(30)	(35)	(29)	(6)	(11)
	141	187	6	10	20	21	20	30	10	14
	128	177	6	13	13	16	29	21	7	6
625	(135)	(182)	(6)	(12)	(17)	(19)	(25)	(26)	(9)	(10)
	135	190	14	5	17	21	25	23	6	9
	157	173	10	9	13	20	25	25	8	13
1250	(146)	(182)	(12)	(7)	(15)	(21)	(25)	(24)	(7)	(11)
	185	191	11	5	13	21	21	42	6	7
	166	185	11	13	18	17	32	29	9	13
2500	(176)	(188)	(11)	(9)	(16)	(19)	(27)	(36)	(8)	(10)
	153	226	8	12	12	25	32	41	11	7
	182	211	5	7	17	18	24	44	3	13
5000	(168)	(219)	(7)	(10)	(15)	(22)	(28)	(43)	(7)	(10)
	158	269	9	18	15	33	27	36	9	15
	145	251	10	11	10	27	31	38	6	13
10000	(152)	(260)	(10)	(15)	(13)	(30)	(29)	(37)	(8)	(14)
Judgement	—	—	—	—	—	—	—	—	—	—
Specific Mutagenicity										
Positive	AF2	2AA	NaN ₃	2AA	AF2	2AA 20	AF2	2AA	9AA	2AA
Control	(748)	(840)	(297)	(140)	(198)	(1468)	(434)	(487)	(446)	(154)

Experimental Data 30% S9

Con. μ g/ plate	Number of Revertants/plate				
	Base-substitution			Frame-shift	
	TA100 S9+	TA1535 S9+	WP2uvrA S9+	TA98 S9+	TA1537 S9+
<u>DMSO</u>	(163)	(11)	(22)	(29)	(12)
	151	10	27	23	20
	178	9	28	27	13
<u>156</u>	(165)	(10)	(28)	(25)	(17)
	191	12	30	28	12
	178	12	28	27	23
<u>313</u>	(185)	(12)	(29)	(28)	(18)
	183	10	24	29	23
	183	9	23	31	22
<u>625</u>	(183)	(10)	(24)	(30)	(23)
	214	14	24	27	29
	207	12	35	24	27
<u>1250</u>	(211)	(13)	(30)	(26)	(28)
	200	9	22	32	29
	188	8	23	32	28
<u>2500</u>	(194)	(9)	(23)	(32)	(29)
	207	8	22	25	39
	197	10	30	27	23
<u>5000</u>	(202)	(9)	(26)	(26)	(31)
	232	16	19	34	36
	245	10	21	32	32
<u>10000</u>	(239)	(13)	(20)	(33)	(34)
Judgement	-	-	-	-	+
Specific Mutagenicity					12.8
Positive	2AA 2.0	2AA 10	2AA 50	2AA 2.0	2AA 10
Control	(428)	(308)	(1069)	(396)	(201)