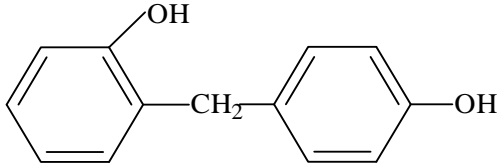


Chemical Name	: <u>2,4'-Dihydroxydiphenylmethane</u>
Synonym	: <u>o</u> -[(4-Hydroxyphenyl)methyl] <u>phenol</u> <u>Phenol, 2-[(4-hydroxyphenyl)</u> <u>methyl]-</u>
Molecular Weight	: 200.24
Melting Point	: 118°C[Aldrich]
Boiling Point	: -
Flashing Point	: -
Molecular Formula	: C ₁₃ H ₁₂ O ₂
Chemical Structure	
CAS No.	: 2467-03-0
MITI No.	: -
ML No.	: -
Specified Chemical Substances	: -
Source of Substance	: Tokyo Kasei Kogyo Co., Ltd.
Lot No.	: FBO01
Purity	: >98%
Vehicle	: DMSO

Mutagenicity in Bacterial Test ; Negative

IARC Evaluation ; not yet cited

Conc. μ g/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvrA/pKM101		TA98		TA1537	
DMSO	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
		(170)	(166)	(10)	(14)	(42)	(78)	(19)	(26)	(7)
1 .22	173 184 (179)	211 202 (207)	6 9 (8)	8 10 (9)	33 41 (37)	57 75 (66)	15 24 (20)	33 21 (27)	2 6 (4)	5 5 (5)
4 .88	180 195 (188)	218 243 (231)	14 10 (12)	10 11 (11)	38 41 (40)	68 62 (65)	13 23 (18)	22 36 (29)	3 6 (5)	5 9 (7)
19 .5	187 185 (186)	255 260 (258)	8 14 (11)	13 16 (15)	41 43 (42)	76 52 (64)	15 16 (16)	30 37 (34)	6 3 (5)	6 10 (8)
78 .1	146 179 (163)	245 229 (237)	5 2 (4)	9 11 (10)	52 48 (50)	62 70 (66)	18 16 (17)	22 33 (28)	6 5 (6)	3 7 (5)
313	120 117 (119)	178 220 (199)	11 15 (13)	6 6 (6)	20 30 (25)	56 45 (51)	10 13 (12)	26 30 (28)	2 5 (4)	6 8 (7)
1250	0 * 0 * (0 *)	0 * 0 * (0 *)	0 * 0 * (0 *)	0 * 0 * (0 *)	0 * 0 * (0 *)	0 * 0 * (0 *)	0 * 0 * (0 *)	0 * 0 * (0 *)	0 * 0 * (0 *)	0 * 0 * (0 *)
5000	0 * 0 * (0 *)	0 * 0 * (0 *)	0 * 0 * (0 *)	0 * 0 * (0 *)	0 * 0 * (0 *)	0 * 0 * (0 *)	0 * 0 * (0 *)	0 * 0 * (0 *)	0 * 0 * (0 *)	0 * 0 * (0 *)
Judgement	-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity										
Positive Control	AF-2 (580)	2-AA (1182)	NaN ₃ (436)	2-AA (271)	AF-2 (741)	2-AA (770)	AF-2 (505)	2-AA (422)	9-AA (522)	2-AA (193)

* Growth inhibition was observed.

Experimental Data-2

(B9811-2/2)

Conc. μ g/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvrA/pKM101		TA98		TA1537	
DMSO	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
	(151)	(175)	(9)	(10)	(35)	(53)	(15)	(23)	(6)	(9)
19 .5	171	188	10	15	24	41	6	36	2	6
	160 (166)	195 (192)	8 (9)	9 (12)	29 (27)	59 (50)	15 (11)	25 (31)	5 (4)	7 (7)
39 .1	142	249	8	8	38	54	9	16	3	6
	139 (141)	242 (246)	6 (7)	14 (11)	39 (39)	71 (63)	11 (10)	24 (20)	5 (4)	7 (7)
78 .1	146	239	11	8	33	64	18	21	3	9
	151 (149)	219 (229)	9 (10)	6 (7)	38 (36)	62 (63)	9 (14)	26 (24)	2 (3)	9 (9)
156	122	200	9	11	32	52	13	34	5	7
	139 (131)	202 (201)	9 (9)	7 (9)	30 (31)	48 (50)	15 (14)	21 (28)	6 (6)	5 (6)
313	104	188	7	10	37	37	15	14	3	9
	114 (109)	186 (187)	8 (8)	8 (9)	36 (37)	49 (43)	16 (16)	18 (16)	3 (3)	7 (8)
625	0 *	0 *	0 *	0 *	3 *	17 *	0 *	0 *	0 *	0 *
	0 * (0 *)	0 * (0 *)	0 * (0 *)	0 * (0 *)	3 * (3 *)	22 * (20 *)	0 * (0 *)	0 * (0 *)	0 * (0 *)	0 * (0 *)
1250	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *
	0 * (0 *)	0 * (0 *)	0 * (0 *)	0 * (0 *)	0 * (0 *)	0 * (0 *)	0 * (0 *)	0 * (0 *)	0 * (0 *)	0 * (0 *)
Judgement	-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity										
Positive Control	AF-2 (567)	2-AA (1103)	NaN ₃ (388)	2-AA (269)	AF-2 (654)	2-AA (576)	AF-2 (499)	2-AA (452)	9-AA (425)	2-AA (186)