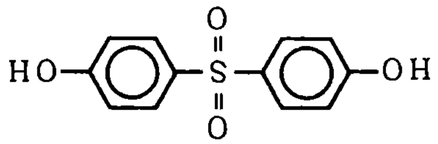
Bis(4-hydroxyphenyl)sulfone (ビス(4-ヒドロキシフェニル)スルホン)

Experimental Data

Chemical Name: Bis(4-hydroxyphenyl)sulfone
Synonym: 4,4'-Dihydroxyphenyl sulfone
Bisphenol S
Phenol, 4,4'-sulfonylbis-
Molecular weight: 250.3
Melting point: 248.5℃

Chemical Structure



CAS No : 80-09-1
MITI No: (3)-2169
Source of Substance: Tokyo Kasei Kogyo Co., Ltd.
Lot.No.: AZ01
Purity:
Vehicle: DMSO

Mutagenicity in Bacterial Test: Negative

IARC Evaluation: not yet cited

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+
DMSO	(126)	(124)	(11)	(7)	(27)	(27)	(36)	(31)	(4)	(7)
	109	116	9	14	23	32	32	24	3	10
	122	146	6	6	32	38	26	44	5	5
20	(116)	(131)	(8)	(10)	(28)	(35)	(29)	(34)	(4)	(8)
	131	107	3	8	28	44	34	36	5	6
	104	137	9	11	23	34	30	34	8	11
39	(118)	(122)	(6)	(10)	(26)	(39)	(32)	(35)	(7)	(9)
	128	108	10	8	23	30	36	41	3	7
	111	115	5	2	30	37	28	40	7	6
78	(120)	(112)	(8)	(5)	(27)	(34)	(32)	(41)	(5)	(7)
	105	131	10	10	23	32	39	29	6	6
	96	115	6	7	11	32	38	22	8	8
156	(101)	(123)	(8)	(9)	(17)	(32)	(39)	(26)	(7)	(7)
	121	128	7	8	23	32	29	34	5	9
	85	114	7	3	26	26	30	33	7	9
313	(103)	(121)	(7)	(6)	(25)	(29)	(30)	(34)	(6)	(9)
	91	101	8	5	16	32	36	24	2	5
	106	97	5	5	20	31	20	30	7	3
625	(99)	(99)	(7)	(5)	(18)	(32)	(28)	(27)	(5)	(4)
	22	24	1	2	20*	20	24	25	5	5
	49	44	2	1	11*	31	16	26	5	3
1250	(36)	(34)	(2)	(2)	(16*)	(26)	(20)	(26)	(5)	(4)
	0*	0*	0*	0*	9*	7*	0*	0*	0*	0*
	0*	0*	0*	0*	5*	10*	0*	0*	0*	0*
2500	(0*)	(0*)	(0*)	(0*)	(7*)	(9*)	(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*)
Judgement	—	—	—	—	—	—	—	—	—	—
Specific Mutagenicity										
Positive Control	AF2 (730)	2AA (1177)	NaN_3 (225)	2AA (188)	AF2 (202)	2AA 20 (1435)	AF2 (470)	2AA (415)	9AA (949)	2AA (161)

Experimental Data

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+
DMSO	(149)	(194)	(8)	(10)	(14)	(26)	(23)	(18)	(5)	(5)
	162	183	8	13	21	16	31	16	5	7
	163	164	13	10	16	34	22	20	2	7
39	(163)	(174)	(11)	(12)	(19)	(25)	(27)	(18)	(4)	(7)
	184	199	5	9	16	26	21	32	7	2
	199	171	9	18	16	22	14	16	6	6
78	(192)	(185)	(7)	(14)	(16)	(24)	(18)	(24)	(7)	(4)
	184	181	9	9	20	18	20	18	6	6
	163	188	11	11	25	21	23	28	8	3
156	(174)	(185)	(10)	(10)	(23)	(20)	(22)	(23)	(7)	(5)
	146	164	7	14	22	15	18	15	6	2
	160	177	5	8	10	21	22	17	5	3
313	(153)	(171)	(6)	(11)	(16)	(18)	(20)	(16)	(6)	(3)
	120	145	2*	2	13	16	14	10	3	5
	127	155	3*	9	13	11	13	20	6	1
625	(124)	(150)	(3*)	(6)	(13)	(14)	(14)	(15)	(5)	(3)
	29*	45*	2*	2*	7*	3*	6*	7*	3*	3*
	25*	34*	5*	6*	9*	15*	6*	7*	7*	3*
1250	(27*)	(40*)	(4*)	(4*)	(8*)	(9*)	(6*)	(7*)	(5*)	(3*)
	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*
	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*
2500	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)
Judgement	—	—	—	—	—	—	—	—	—	—
Specific Mutagenicity										
Positive Control	AF2 (875)	2AA (802)	NaN_3 (264)	2AA (171)	AF2 (263)	2AA 20 (1075)	AF2 (333)	2AA (455)	9AA (502)	2AA (151)