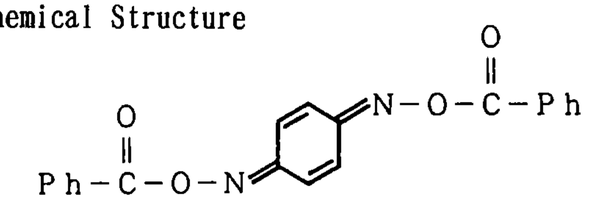
p,p'-Dibenzoylquinone dioxime
(p,p'-ジベンゾイルキノン ジオキシム)

Chemical Name: p,p'-Dibenzoylquinone dioxime
Synonym
Molecular weight: 346.34
Melting point: ℃
Boiling point: ℃

Chemical Structure



CAS No: 120-52-5
MITI No: (3)-1010, (3)-2966

Source of Substance:Tokyo Kasei Kogyo Co.Ltd
Lot.No.: AT01
Purity: industrial grade
Vehicle: DMSO

Mutagenicity
in Bacterial Test: Positive

IARC Evaluation: not yet cited

Experimental Data

Number of Revertants/plate

Con. μg/plate	Base-substitution						Frame-shift					
	TA100		TA1535		WP2uvrA		TA98		TA1537		TA1538	
	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
DMSO	(108)	(108)	(21)	(14)	(34)	(40)	(22)	(29)	(11)	(13)	(13)	(23)
	103	115	24	9	42	47	23	31	12	9	20	38
	109	136	23	15	42	42	28	32	8	12	16	30
20	(106)	(126)	(24)	(12)	(42)	(45)	(26)	(32)	(10)	(11)	(18)	(34)
	111	107	27	16	42	39	26	48	12	11	13	49
	110	119	15	16	40	36	24	57	7	13	14	57
50	(111)	(113)	(21)	(16)	(41)	(38)	(25)	(53)	(10)	(12)	(14)	(53)
	100	115	22	15	40	47	21	68	13	14	16	75
	106	131	22	10	46	48	19	81	7	13	18	84
100	(103)	(123)	(22)	(13)	(43)	(48)	(20)	(75)	(10)	(14)	(17)	(80)
	115	121	26	14	38	32	22	117	7	15	28	131
	105	120	16	12	35	46	24	128	10	15	20	125
200	(110)	(121)	(21)	(13)	(37)	(39)	(23)	(123)	(9)	(15)	(24)	(128)
	113	125	25	12	31	51	30	223	12	14	18	272
	103	136	16	9	45	42	30	232	7	17	24	271
500	(108)	(131)	(21)	(11)	(38)	(47)	(30)	(228)	(10)	(16)	(21)	(272)
	100	188	25	13	35	47	46	374	8	16	38	378
	105	174	21	12	39	57	51	372	6	21	36	377
1000	(103)	(181)	(23)	(13)	(37)	(52)	(49)	(373)	(7)	(19)	(37)	(378)
	117	259	14	13	35	43	68	614	9	27	54	578
	110	270	21	12	37	41	76	616	6	32	55	540
2000	(114)	(265)	(18)	(13)	(36)	(42)	(72)	(615)	(8)	(30)	(55)	(559)
	104	500	21	14	35	48	112	861	12	38	136	756
	116	384	15	11	41	42	100	998	10	40	143	910
5000	(110)	(442)	(18)	(13)	(38)	(45)	(106)	(930)	(11)	(39)	(140)	(833)
Judgement	−	+	−	−	−	−	+	+	−	+	+	+
Specific Mutagenicity		78.5					27.0	470		8.50	24.0	600
Positive Control	AF2	2AA 0.5	NaN_3	2AA	AF2	2AA	AF2	2AA	9AA	2AA	2NF	2AA
	(437)	(175)	(234)	(141)	(273)	(833)	(352)	(332)	(470)	(418)	(354)	(385)