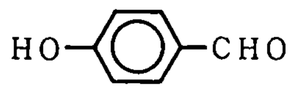
p-Hydroxybenzaldehyde (p-ヒドロキシベンズアルデヒド)

Chemical Name: p-Hydroxybenzaldehyde
Synonym: 4-Formylphenol
Benzaldehyde, 4-hydroxy-
Molecular weight: 122.12
Melting point: 117~119℃
Boiling point:
Flashing point:
Chemical Structure



CAS No : 123-08-0
MITI No: (3)-1183, (3)-2660
Source of Substance: Wako Pure Chem. Ind., Ltd.
Lot.No.: EPN1416
Purity:
Vehicle: DMSO

Mutagenicity
in Bacterial Test: Negative

IARC Evaluation: not yet cited

Experimental Data

Con. μg/plate	Number of Revertants/plate											
	Base-substitution						Frame-shift					
	TA100		TA1535		WP2uvrA		TA98		TA1537		TA1538	
	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
DMSO	(190)	(171)	(25)	(16)	(43)	(42)	(21)	(38)	(12)	(14)	(17)	(21)
	178	168	30	10	42	36	31	38	7	13	8	12
	197	170	31	18	50	46	25	35	16	12	7	16
100	(188)	(169)	(31)	(14)	(46)	(41)	(28)	(37)	(12)	(13)	(8)	(14)
	145	163	27	17	47	38	33	31	15	25	10	22
	166	178	25	12	47	36	26	35	3	21	16	22
200	(156)	(171)	(26)	(15)	(47)	(37)	(30)	(33)	(9)	(23)	(13)	(22)
	180	180	26	22	38	33	26	37	11	23	10	21
	170	145	30	16	36	37	27	31	8	15	13	15
500	(175)	(163)	(28)	(19)	(37)	(35)	(27)	(34)	(10)	(19)	(12)	(18)
	138	159	22	22	35	26	27	47	6	21	11	15
	159	149	36	8	37	33	35	35	11	22	15	20
1000	(149)	(154)	(29)	(15)	(36)	(30)	(31)	(41)	(9)	(22)	(13)	(18)
	138	122	27	16	26	38	23	44	16	20	7	21
	140	132	38	12	55	49	21	36	10	17	8	26
2000	(139)	(127)	(33)	(14)	(41)	(44)	(22)	(40)	(13)	(19)	(8)	(24)
	104	140	16	16	30	38	25	36	3	11	11	20
	118	114	20	21	33	32	20	25	3	7	6	22
5000	(111)	(127)	(18)	(19)	(32)	(35)	(23)	(31)	(3)	(9)	(9)	(21)
	15*	35*	5*	7*	0*	21*	2*	13*	0*	5*	0*	0*
	25*	45*	7*	15*	2*	18*	8*	17*	3*	7*	0*	5*
10000	(20*)	(40*)	(6*)	(11*)	(1*)	(20*)	(5*)	(15*)	(2*)	(6*)	(0*)	(3*)
Judgement	—	—	—	—	—	—	—	—	—	—	—	—
Specific Mutagenicity												
Positive Control	AF2	2AA 0.5	NaN_3	2AA	AF2	2AA	AF2	2AA	9AA	2AA	4NQO	2AA
	(816)	(358)	(237)	(191)	(318)	(1120)	(535)	(352)	(117)	(292)	(392)	(246)