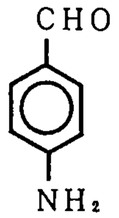
p-Aminobenzaldehyde (p-アミノベンズアルデヒド)

Chemical Name: p-Aminobenzaldehyde
Synonym p-Formylaniline
Formanilide
Benzaldehyde, 4-amino-
Molecular weight: 121.1
Boiling point: 271℃, 166℃ (14mmHg)
Melting point: 46.6~47.5℃
Flashing point: > 110℃
Chemical Structure



CAS No: 556-18-3
MITI No: (3)-1163
Source of Substance: Tokyo Kasei Kogyo Co., Ltd.
Lot.No.: FA001
Purity: ≧ 50 %
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	
	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
DMSO	(135)	(127)	(11)	(10)	(21)	(26)	(32)	(31)	(10)	(19)
	141	144	13	10	22	32	36	37	10	18
	111	138	15	11	25	31	31	37	9	13
39	(126)	(141)	(14)	(11)	(24)	(32)	(34)	(37)	(10)	(16)
	143	136	10	8	17	32	41	39	11	15
	160	124	13	10	23	29	40	36	3	13
78	(152)	(130)	(12)	(9)	(20)	(31)	(41)	(38)	(7)	(14)
	163	143	11	9	30	24	38	51	11	15
	157	134	11	13	22	24	40	40	13	18
156	(160)	(139)	(11)	(11)	(26)	(24)	(39)	(46)	(12)	(17)
	152	141	7	11	26	28	41	38	7	18
	162	156	8	11	26	31	45	40	11	14
313	(157)	(149)	(8)	(11)	(26)	(30)	(43)	(39)	(9)	(16)
	143	169	13	9	21	34	33	38	11	15
	150	170	10	6	29	31	27	37	8	10
625	(147)	(170)	(12)	(8)	(25)	(33)	(30)	(38)	(10)	(13)
	123	171	11	9	15	28	33	32	10	11
	115	171	9	10	18	23	25	40	11	10
1250	(119)	(171)	(10)	(10)	(17)	(26)	(29)	(36)	(11)	(11)
	121	136	5	9	23	33	30	45	9	12
	123	134	4	7	20	25	40	45	9	15
2500	(122)	(135)	(5)	(8)	(22)	(29)	(35)	(45)	(9)	(14)
	115	147	5	8	24	23	31	50	10	18
	140	148	11	10	19	24	33	43	11	15
5000	(128)	(148)	(8)	(9)	(22)	(24)	(32)	(47)	(11)	(17)
	96	107	11	5	11	26	33	46	10	17
	107	99	7	8	23	26	25	42	7	11
10000	(102)	(103)	(9)	(7)	(17)	(26)	(29)	(44)	(9)	(14)
Judgement	—	—	—	—	—	—	—	—	—	—
Specific Mutagenicity										
Positive Control	AF2 (648)	2AA (725)	NaN_3 (440)	2AA (165)	AF2 (152)	2AA 20 (1452)	AF2 (410)	2AA (363)	9AA (543)	2AA (144)

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	(134)	(135)	(10)	(10)	(23)	(23)	(25)	(25)	(7)	(8)
	117	177	8	4	16	26	25	23	5	3
	124	179	7	7	14	28	33	30	4	3
625	(121)	(178)	(8)	(6)	(15)	(27)	(29)	(27)	(5)	(3)
	106	168	7	14	18	30	27	33	5	4
	136	163	8	4	15	29	24	26	8	3
1250	(121)	(166)	(8)	(9)	(17)	(30)	(26)	(30)	(7)	(4)
	121	141	3	7	21	25	30	36	8	2
	119	156	9	6	19	22	33	40	8	3
2500	(120)	(149)	(6)	(7)	(20)	(24)	(32)	(38)	(8)	(3)
	105	172	4	11	25	31	19	31	8	4
	107	162	5	14	18	30	18	27	6	4
5000	(106)	(167)	(5)	(13)	(22)	(31)	(19)	(29)	(7)	(4)
	105	132	8	7	24	20	25	25	7	4
	99	137	4	5	22	23	20	20	11	4
10000	(102)	(135)	(6)	(6)	(23)	(22)	(23)	(23)	(9)	(4)
Judgement	—	—	—	—	—	—	—	—	—	—
Specific Mutagenicity										
Positive Control	AF2 (696)	2AA (763)	NaN_3 (308)	2AA (145)	AF2 (200)	2AA 20 (1486)	AF2 (419)	2AA (337)	9AA (476)	2AA (129)

Experimental Data　　30% S9

Con. μg/plate	Number of Revertants/plate				
	Base-substitution			Frame-shift	
	TA100	TA1535	WP2uvrA	TA98	TA1537
	S9+	S9+	S9+	S9+	S9+
DMSO	(167)	(17)	(30)	(38)	(22)
	166	18	31	39	14
	176	18	22	24	17
156	(171)	(18)	(27)	(32)	(16)
	207	22	32	40	12
	181	17	23	32	15
313	(194)	(20)	(28)	(36)	(14)
	189	24	32	32	19
	178	18	39	36	23
625	(184)	(21)	(36)	(34)	(21)
	195	17	27	37	16
	174	21	29	46	6
1250	(185)	(19)	(28)	(42)	(11)
	185	23	39	41	17
	188	20	27	47	11
2500	(187)	(22)	(33)	(44)	(14)
	187	16	25	54	16
	209	21	33	34	16
5000	(198)	(19)	(29)	(44)	(16)
	159	12	29	57	24
	156	12	23	55	15
10000	(158)	(12)	(26)	(56)	(20)
Judgement	—	—	—	—	—
Specific Mutagenicity					
Positive Control	2AA 2.0 (497)	2AA 10 (321)	2AA 50 (1114)	2AA 2.0 (442)	2AA 10 (296)