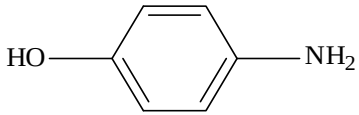
Chemical Name ; 4-Aminophenol

Synonym ; *p*-Aminophenol
4-Amino-1-hydroxybenzene
C.I. 76550
C.I. Oxidation Base 6
p-アミノフェノール
C.I.オキシデーションベース-6

Molecular Weight ; 109.13
Melting Point ; 188-190℃ [Aldrich]
Boiling Point ; 284℃(decomposition)[Merck]
Flashing Point ; −
Molecular Formula ; C_6H_7NO

Chemical Structure



CAS No. ; 123-30-8
MITI No. ; (3)-675, (5)-3026
ML No. ; −
Specified Chemical Substances ; −

Source of Substance; Tokyo Kasei Kogyo Co., Ltd.
Lot No. ; GG01
Purity ; >98.0%

Vehicle ; DMSO

Conc. μg/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2*uvr*A/pKM101		TA98		TA1537	
	S9−	S9+	S9−	S9+	S9−	S9+	S9−	S9+	S9−	S9+
DMSO	(141)	(176)	(11)	(13)	(41)	(60)	(20)	(26)	(6)	(7)
	116	194	10	20	38	66	16	33	5	3
	159	159	13	7	32	62	14	26	3	13
1 .22	(138)	(177)	(12)	(14)	(35)	(64)	(15)	(30)	(4)	(8)
	131	180	11	13	37	47	22	30	3	6
	135	184	7	16	45	66	10	28	5	11
4 .88	(133)	(182)	(9)	(15)	(41)	(57)	(16)	(29)	(4)	(9)
	119	190	17	16	39	60	18	26	5	9
	129	202	10	15	39	68	18	37	6	10
19 .5	(124)	(196)	(14)	(16)	(39)	(64)	(18)	(32)	(6)	(10)
	119	157	8	11	48	61	22	32	2	8
	145	197	9	13	46	71	24	23	8	5
78 .1	(132)	(177)	(9)	(12)	(47)	(66)	(23)	(28)	(5)	(7)
	144	178	9	9	52	94	16	30	3	7
	131	197	11	13	47	100	26	29	6	10
313	(138)	(188)	(10)	(11)	(50)	(97)	(21)	(30)	(5)	(9)
	0 *	102	0 *	10	43	131	0 *	22	0 *	10
	0 *	87	0 *	8	57	141	0 *	23	0 *	2
1250	(0 *)	(95)	(0 *)	(9)	(50)	(136)	(0 *)	(23)	(0 *)	(6)
	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						60.8				
Positive Control	AF-2 (602)	2-AA (1299)	NaN_3 (456)	2-AA (307)	AF-2 (926)	2-AA (955)	AF-2 (438)	2-AA (484)	9-AA (546)	2-AA (193)

* Growth inhibitation was observed.

Mutagenicity in Bacterial Test ; Positive

IARC Evaluation ; not yet cited

Conc. μg/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2*uvr*A/pKM101		TA98		TA1537	
	S9−	S9+	S9−	S9+	S9−	S9+	S9−	S9+	S9−	S9+
DMSO	(131)	(147)	(9)	(10)	(41)	(61)	(13)	(20)	(6)	(8)
	130		5				18		3	
	121		5				18		5	
19.5	(126)		(5)				(18)		(4)	
	133		10			56	9		2	
	123		5			68	18		7	
39.1	(128)		(8)			(62)	(14)		(5)	
	135	166	8	7	54	69	10	29	9	7
	135	206	7	15	47	72	18	23	5	3
78.1	(135)	(186)	(8)	(11)	(51)	(71)	(14)	(26)	(7)	(5)
	120	160	9	11	49	63	6	23	8	6
	158	157	2	10	47	66	10	15	6	7
156	(139)	(159)	(6)	(11)	(48)	(65)	(8)	(19)	(7)	(7)
	124	169	10	6	40	91	10	23	3	6
	107	169	6	13	44	75	13	18	2	11
313	(116)	(169)	(8)	(10)	(42)	(83)	(12)	(21)	(3)	(9)
	112	117	6	9	47	87	14 *	23	5	9
	108	139	6	10	46	87	15 *	20	3	7
625	(110)	(128)	(6)	(10)	(47)	(87)	(15 *)	(22)	(4)	(8)
	0 *	89	0 *	8	52	139	0 *	15	0 *	3
	0 *	91	0 *	5	45	133	0 *	18	0 *	6
1250	(0 *)	(90)	(0 *)	(7)	(49)	(136)	(0 *)	(17)	(0 *)	(5)
		17 *		2	1 *	52		11		3 *
		5 *		2	8 *	49		7		1 *
2500		(11 *)		(2)	(5 *)	(51)		(9)		(2 *)
		0 *		0 *	0 *			0 *		0 *
		0 *		0 *	0 *			0 *		0 *
5000		(0 *)		(0 *)	(0 *)			(0 *)		(0 *)
Judgement	−	−	−	−	−	+	−	−	−	−
Specific Mutagenicity						60.0				
Positive Control	AF-2 (708)	2-AA (1356)	NaN_3 (479)	2-AA (305)	AF-2 (590)	2-AA (635)	AF-2 (401)	2-AA (464)	9-AA (603)	2-AA (180)