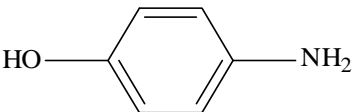


Chemical Name	; 4-Aminophenol	
Synonym	; <u>p-Aminophenol</u> 4-Amino-1-hydroxybenzene C.I. 76550 C.I. Oxidation Base 6 <u>p-アミノフェノール</u> C.I.オキシデーションベース6	
Molecular Weight	; 109.13	
Melting Point	; 188-190°C [Aldrich]	
Boiling Point	; 284°C(decomposition)[Merck]	
Flashing Point	; -	
Molecular Formula	; C <sub>6</sub> H <sub>7</sub> NO	
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. μ g/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2 <sub>uvrA</sub> /pKM101		TA98		TA1537	
DMSO	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
	( 141 )	( 176 )	( 11 )	( 13 )	( 41 )	( 60 )	( 20 )	( 26 )	( 6 )	( 7 )
	116	194	10	20	38	66	16	33	5	3
1 .22	( 138 )	( 177 )	( 12 )	( 14 )	( 35 )	( 64 )	( 15 )	( 30 )	( 4 )	( 8 )
	131	180	11	13	37	47	22	30	3	6
4 .88	( 133 )	( 182 )	( 9 )	( 15 )	( 41 )	( 57 )	( 16 )	( 29 )	( 4 )	( 9 )
	119	190	17	16	39	60	18	26	5	9
19 .5	( 124 )	( 196 )	( 14 )	( 16 )	( 39 )	( 64 )	( 18 )	( 32 )	( 6 )	( 10 )
	119	157	8	11	48	61	22	32	2	8
78 .1	( 132 )	( 177 )	( 9 )	( 12 )	( 47 )	( 66 )	( 23 )	( 28 )	( 5 )	( 7 )
	144	178	9	9	52	94	16	30	3	7
313	( 138 )	( 188 )	( 10 )	( 11 )	( 50 )	( 97 )	( 21 )	( 30 )	( 5 )	( 9 )
	0 *	102	0 *	10	43	131	0 *	22	0 *	10
1250	( 0 *)	( 95 )	( 0 *)	( 9 )	( 50 )	( 136 )	( 0 *)	( 23 )	( 0 *)	( 6 )
	0 *	87	0 *	8	57	141	0 *	23	0 *	2
5000	( 0 *)	( 0 *)	( 0 *)	( 0 *)	( 0 *)	( 0 *)	( 0 *)	( 0 *)	( 0 *)	( 0 *)
	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *
Judgement	-	-	-	-	-	+	-	-	-	-
Specific Mutagenicity						60.8				
Positive Control	AF-2 ( 602 )	2-AA ( 1299 )	NaN <sub>3</sub> ( 456 )	2-AA ( 307 )	AF-2 ( 926 )	2-AA ( 955 )	AF-2 ( 438 )	2-AA ( 484 )	9-AA ( 546 )	2-AA ( 193 )

\* Growth inhibition was observed.

Mutagenicity in Bacterial Test ; Positive

IARC Evaluation ; not yet cited

Experimental Data-2

(B9802-2/2)

Conc. μ g/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2 <sup>avr</sup> 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 )
19 .5	130		5				18		3	
	121 ( 126 )		5 ( 5 )				18 ( 18 )		5 ( 4 )	
39 .1	133		10			56	9		2	
	123 ( 128 )		5 ( 8 )			68 ( 62 )	18 ( 14 )		7 ( 5 )	
78 .1	135	166	8	7	54	69	10	29	9	7
	135 ( 135 )	206 ( 186 )	7 ( 8 )	15 ( 11 )	47 ( 51 )	72 ( 71 )	18 ( 14 )	23 ( 26 )	5 ( 7 )	3 ( 5 )
156	120	160	9	11	49	63	6	23	8	6
	158 ( 139 )	157 ( 159 )	2 ( 6 )	10 ( 11 )	47 ( 48 )	66 ( 65 )	10 ( 8 )	15 ( 19 )	6 ( 7 )	7 ( 7 )
313	124	169	10	6	40	91	10	23	3	6
	107 ( 116 )	169 ( 169 )	6 ( 8 )	13 ( 10 )	44 ( 42 )	75 ( 83 )	13 ( 12 )	18 ( 21 )	2 ( 3 )	11 ( 9 )
625	112	117	6	9	47	87	14 *	23	5	9
	108 ( 110 )	139 ( 128 )	6 ( 6 )	10 ( 10 )	46 ( 47 )	87 ( 87 )	15 * ( 15 * )	20 ( 22 )	3 ( 4 )	7 ( 8 )
1250	0 *	89	0 *	8	52	139	0 *	15	0 *	3
	0 * ( 0 * )	91 ( 90 )	0 * ( 0 * )	5 ( 7 )	45 ( 49 )	133 ( 136 )	0 * ( 0 * )	18 ( 17 )	0 * ( 0 * )	6 ( 5 )
2500		17 *		2	1 *	52		11		3 *
		5 * ( 11 * )		2 ( 2 )	8 * ( 5 * )	49 ( 51 )		7 ( 9 )		1 * ( 2 * )
5000		0 *		0 *	0 *			0 *		0 *
		0 * ( 0 * )		0 * ( 0 * )	0 * ( 0 * )			0 * ( 0 * )		0 * ( 0 * )
Judgement	-	-	-	-	-	+	-	-	-	-
Specific Mutagenicity						60.0				
Positive Control	AF-2 ( 708 )	2-AA ( 1356 )	NaN <sub>3</sub> ( 479 )	2-AA ( 305 )	AF-2 ( 590 )	2-AA ( 635 )	AF-2 ( 401 )	2-AA ( 464 )	9-AA ( 603 )	2-AA ( 180 )