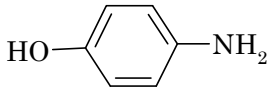


4-Aminophenol (4-アミノフェノール)

Experimental Data (Short treatments)

Chemical Name	; 4-Aminophenol		
Synonym	; <u>p-Aminophenol</u> <u>4-Hydroxyaniline</u> <u>p-Hydroxyaniline</u>		
Molecular Weight	; 109.13		
Melting Point	; 189.6-190.2°C [Merck]		
Boiling Point	; 284 °C(decomposition)[Merck]		
Flashing Point	; -		
Molecular Formula	; C ₆ H ₇ NO		
Chemical Structure ;			
CAS No.	; 123-30-8		
MITI No.	; (3)-675		
ML No.	; -		
Specified Chemical Substances ;	-		
Source of Substance ;	Wako Pure Chemical Industries Ltd.		
Lot No.	; WAN0901		
Purity	; 99.8%		
Vehicle	; Dehydrated DMSO		

Judgement for
Chromosomal Aberration in CHL ; Positive

IARC Evaluation ; Not yet cited

Treatment Time (h)	S9 mix	Concentration (mg/ml)	Cell with Structural Chromosome Aberration (%)							Gap (%)	Cell Growth Rate (%)	Cell with Numerical Chromosome Aberration(%)				
			No. of Metaphase	Chromatid		Chromosome		Others	Total			No. of Metaphase	Poly-ploid	Others	Total	
				ctb	cte	csb	cse									
6-18	-	[DMSO] (1%)	200	1	0.5	0	0	0	1.5	0	100	204	2.0	0	2.0	
		0.0011	200	1	2	0	0	0	2	0	96	203	1.5	0	1.5	
		0.0021	200	3	6.5	0	0	0	8.5	0.5	96	205	2.4	0	2.4	
		0.0043	200	6.5	22	0	0	0	23	0	100	206	2.9	0	2.9	
		0.0086	67	16.4	40.3	0	0	0	46.3	0	12	72	6.9	0	6.9	
		0.017	TOX								0	TOX				
		[MMC] (0.0001)	200	17	55.5	0	0	0	62.5	0	-	205	2.4	0	2.4	
6-18	+	[DMSO] (1%)	200	0.5	1	0	0	0	1.5	0	100	205	2.4	0	2.4	
		0.017	200	0.5	6	0	0	0	6	0	95	202	1.0	0	1.0	
		0.034	200	2	10.5	0	0	0	11.5	0	83	204	2.0	0	2.0	
		0.069	200	1	13	0	0	0	13.5	0.5	99	206	2.9	0	2.9	
		0.14	200	1	7	0	0	0	7.5	0	85	208	3.8	0	3.8	
		0.28	200	1	18	0	0	0	18	0	88	210	4.8	0	4.8	
		0.55	200	0.5	9	0	0	0	9	0	88	204	2.0	0	2.0	
		1.1	200	1.5	6.5	0	0	0	8	0	72	202	1.0	0	1.0	
		[B[a]P] (0.01)	200	1.5	23	0	0	0	24	0	-	205	2.4	0	2.4	

※ Test conditions: S9mix ; 5%, Treatment time ; 6h, Recovery time ; 18h
TOX: Metaphase cell division was not observed.

Experimental Data without Metabolic Activation (Continuous treatments)

Treatment Time (h)	Concentration (mg/ml)	Cell with Structural Chromosome Aberration (%)							Gap (%)	Cell Growth Rate (%)	Cell with Numerical Chromosome Aberration(%)			
		No. of Metaphase	Chromatid		Chromosome		Others	Total			No. of Metaphase	Poly-ploid	Others	Total
			ctb	cte	csb	cse								
24-0	[DMSO] (1%)	200	1	1.5	0	0	0	2.5	1	100	203	1.5	0	1.5
	0.00013	200	2.5	2	0	0	0	4.5	1	102	205	2.4	0	2.4
	0.00025	200	2.5	4.5	0	0	0	6.5	0	112	202	1.0	0	1.0
	0.0005	200	4.5	6	0	0	0	10	0.5	98	208	3.8	0	3.8
	0.001	200	7.5	13	0	0	0	17.5	1.5	86	203	1.5	0	1.5
	0.002	200	16	27	0	0	0	37	1	96	205	2.4	0	2.4
	0.004	TOX								51	TOX			
	[MMC] (0.00004)	200	11	36	0	0	0	43.5	0	—	206	2.9	0	2.9
48-0	[DMSO] (1%)	200	1	2	0	0	0	3	0.5	100	205	2.4	0	2.4
	0.00013	200	0.5	2.5	0	0	0	2.5	0	104	202	1.0	0	1.0
	0.00025	200	0.5	2.5	0	0	0	3	0	97	207	3.4	0	3.4
	0.0005	200	2.5	4	0	0	0	6	0	82	203	1.5	0	1.5
	0.001	200	7.5	20.5	0	0	0	23	0.5	69	210	4.8	0	4.8
	0.002	200	9	33	0	0	0	35	0.5	62	215	7.0	0	7.0
	0.004	TOX								18	TOX			
	[MMC] (0.00004)	200	15	62				65.5	0.5	—	206	2.9	0	2.9

※ Test conditions: Treatment time ; 24h or 48h, Recovery time ; 0h
 TOX: Metaphase cell division was not observed.