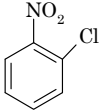


2-Chloronitrobenzene (2-クロロニトロベンゼン)

Experimental Data (Short treatments)

Chemical Name ; <u>2-Chloronitrobenzene</u> Synonym ; <u>o-Chloronitrobenzene</u> <u>1-Chloro-2-nitrobenzene</u>	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										
Molecular Weight ; 157.56 Melting Point ; 32-33°C[Merck] Boiling Point ; 242°C[Merck] Flashing Point ; 127°C[Merck] Molecular Formula ; C ₆ H ₄ ClNO ₂ Chemical Structure ;  CAS No. ; 88-73-3 METI No. ; (3)-442 MHLW No. ; - Specified Chemical Substances ; - Source of Substance; Wako Pure Chemical Industries, Ltd. Lot No. ; WTR9795 Purity ; 99.3% Vehicle ; Dehydrated DMSO	6-18	-	[DMSO] (1.0%)	200	0.5	0	0	0	0	0.5	0	100	200	1.5	0	1.5		
			0.050	200	0	1	0	0	0	0	1	0	84	200	1	0	1	
			0.10	200	0	0	0	0	0	0	0	0	73	200	3	0	3	
			0.20	200	0	0	0	0	0	0	0	0	77	200	2	0	2	
			0.40†	200	1	2	0	0	0	0	3	0	39	200	0.5	0	0.5	
			0.60†	TOX									21	TOX				
			[MMC] (0.00012)	200	12	37	0.5	0	0	0	45	0.5	-	200	1	0	1	
	6-18	+	[DMSO] (1.0%)	200	0	0	0	0	0	0	0	100	200	0	0	0		
			0.050	200	0	0.5	0	0	0	0	0.5	0	95	200	0.5	0	0.5	
			0.10	200	0	0	0	0	0	0	0	0	76	200	0	0	0	
			0.20	200	0.5	0	0	0	0	0	0.5	0	59	200	1	0	1	
			0.40†	200	0.5	3.5	0	0	0	0	4	0	45	200	5	0	5	
			0.60†	TOX									18	TOX				
			[B[a]P] (0.01)	200	2.5	25.5	0.5	0	0	0	27.5	1.5	-	200	0.5	0	0.5	

Judgement for Chromosomal Aberration in CHL/IU ; Positive

IARC Evaluation ; Group 3

※ Test conditions: S9mix ; 5%, Treatment time ; 6h, Recovery time ; 18h

† The precipitation of test chemical was observed in the culture medium.

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] (1.0%)	200	0.5	0	0	0	0	0.5	1	100	200	0	0	0	
	0.025	200	0.5	1	0	0	0	1.5	0.5	101	200	1.5	0	1.5	
	0.050	200	0.5	0.5	0	0	0	1	1.5	100	200	2.5	0	2.5	
	0.10	200	0	1	0	0	0	1	0	91	200	6.5	0	6.5	
	0.20	200	1.5	0.5	0	0	0	2	0.5	74	200	4	0	4	
	0.40†	TOX								45	TOX				
	[MMC] (0.00004)	200	7	27.5	0	0	0	33	0.5	—	200	0.5	0	0.5	
48-0	[DMSO] (1.0%)	200	0	1	0	0	0	1	0	100	200	0	0	0	
	0.050	200	0	0	0	0	0	0	0	102	200	2.5	0	2.5	
	0.10	200	0.5	0	0	0	0	0.5	0	87	200	2	0	2	
	0.20	200	0	0	0	0	0	0	0	77	200	11.5	0	11.5	
	0.40†	152	0.7	2	0	0	0	2	0	25	152	11.8	0	11.8	
	0.60†	TOX								16	TOX				
	[MMC] (0.00004)	200	8.5	45.5	0	0.5	0	48.5	1.5	—	200	1.5	0	1.5	

※ Test conditions: Treatment time ; 24h or 48h, Recovery time ; 0h

† The precipitation of test chemical was observed in the culture medium.