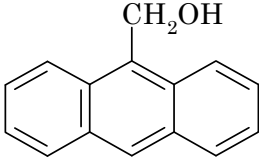


9-Anthracenemethanol (9-アントラセンメタノール)

Experimental Data (Short treatments)-1

Chemical Name : <u>9-Anthracenemethanol</u> Synonym : <u>(9-Anthryl)methanol</u> <u>Anthracene-9-methanol</u> <u>9-(Hydroxymethyl)anthracene</u> <u>9-(ヒドロキシメチル)アントラセン</u> <u>9-アントリルメタノール</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 : 208.26 Melting Point : 162-164°C[CHCD] Boiling Point : - Flashing Point : - Molecular Formula : C ₁₅ H ₁₂ O Chemical Structure :  CAS No. : 1468-95-7 MITI No. : - ML No. : 7-(1)-654 Specified Chemical Substances ; - Source of Substance ; Ryoyo Trading Company, Ltd. Lot No. : 80929 Purity : 99wt% Vehicle : Dehydrated DMSO	6-18	-	[DMSO] (1%)	200	0	0	0	0	0	0	0	100	206	2.9	0.0	2.9
			0.013	200	2	1	0	0	0	3	0	96	204	2.0	0.0	2.0
			0.025	200	2	0.5	0	0	0	2.5	0	91	208	3.4	0.5	3.8
			0.05	200	1.5	0	0	0	0	1.5	0	98	207	3.4	0.0	3.4
			0.1†	200	1.5	2	0	0	0	3.5	0	80	206	2.9	0.0	2.9
			0.15†	200	3	3	0	0	0	6	0	68	202	0.0	1.0	1.0
			0.2†	200	3.5	3	0	0	0	6	0	64	206	1.5	1.5	2.9
			[MMC] (0.0001)	200	17	50.5	0	0	0	58.5	1.5	-	206	2.9	0.0	2.9
	6-18	+	[DMSO] (1%)	200	0.5	1	0	0	0	1.5	0	100	201	0.5	0.0	0.5
			0.013	200	0	0.5	0	0	0	0.5	0	92	201	0.5	0.0	0.5
			0.025	200	0	1	0	0	0	1	0	83	203	1.5	0.0	1.5
			0.05	200	2	6.5	0	0	0	7.5	0	63	201	0.5	0.0	0.5
			0.1†	200	11.5	28.5	0	0	0	32	0.5	34	209	4.3	0.0	4.3
			0.2†	132	18.9	37.1	0	0	1.5	43.9	0.8	25	134	1.5	0.0	1.5
[B[a]P] (0.01)			200	7.5	38.5	0	0	0	41	0	-	205	2.4	0.0	2.4	

Judgement for Chromosomal Aberration in CHL ; Positive

IARC Evaluation : Not yet cited

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

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

Experimental Data (Short treatments)-2

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	203	1.5	0.0	1.5
		0.025	200	1	0.5	0	0	0	1	0	90	202	1.0	0.0	1.0
		0.05	200	1.5	2	0	0	0	3	0	84	201	0.5	0.0	0.5
		0.1†	200	1	1.5	0	0	0	2.5	0	78	205	2.4	0.0	2.4
		0.15†	200	2	3.5	0	0	0	5.5	0.5	77	206	2.9	0.0	2.9
		0.2†	200	0	0.5	0	0	0	0.5	0	79	209	3.3	1.0	4.3
		[MMC] (0.0001)	200	18.5	51	0	0	0	58.5	0	—	201	0.5	0.0	0.5

※ Test conditions: 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%)	200	1.5	0.5	0	0	0	2	0	100	200	0.0	0.0	0.0
	0.010	200	2	0.5	0	0	0	2.5	0.5	73	201	0.5	0.0	0.5
	0.026	200	3.5	2	0	0	0	5.5	0	77	203	1.5	0.0	1.5
	0.064	200	4.5	9	0	0	0	13.5	0	58	203	1.5	0.0	1.5
	0.16†	200	0.5	9	0	0	0	9.5	0.5	63	204	2.0	0.0	2.0
	0.4†	200	7.5	3.5	0	0	0	11	0	54	200	0.0	0.0	0.0
	1.0†	200	2.5	6.5	0	0	0	9	0	59	201	0.5	0.0	0.5
	[MMC] (0.00004)	200	15.5	50.5	0	0	0	58	0	—	200	0.0	0.0	0.0
48-0	[DMSO] (1%)	200	0.5	1.5	0	0	0	2	0	100	201	0.5	0.0	0.5
	0.010	200	0	0.5	0	0	0	0.5	0	85	201	0.5	0.0	0.5
	0.026	200	0.5	1.5	0	0	0	2	0	62	205	2.4	0.0	2.4
	0.064	200	1.5	3	0	0	0	4.5	0	49	200	0.0	0.0	0.0
	0.16†	200	1	5.5	0	0	0	6.5	0	43	200	0.0	0.0	0.0
	0.4†	200	4.5	6.5	0	0	0	10.5	0.5	35	202	1.0	0.0	1.0
	1.0†	200	2	6	0	0	0	8	0	25	200	0.0	0.0	0.0
	[MMC] (0.00004)	200	18.5	59	0	0	0	65	0	—	200	0.0	0.0	0.0

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

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