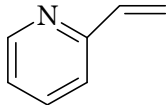


2-Vinylpyridine (2-ビニルピリジン)

Experimental Data (Short treatments)

Chemical Name	: 2-Vinylpyridine
Synonym	: 2-Ethenylpyridine 2-Pyridylethylene
Molecular Weight	: 105.14
Melting Point	: -
Boiling Point	: 158-159°C(decomposition)[CHCD]
Flashing Point	: 50°C [CHCD]
Molecular Formula	: C ₇ H ₇ N
Chemical Structure :	
CAS No.	: 100-69-6
MITI No.	: (5)-716
ML No.	: -
Specified Chemical Substances	: -
Source of Substance	: Wako Pure Chemical Industries Ltd.
Lot No.	: ASR1592
Purity	: 99.3% (contained about 0.1% of 4-tert-butylpyrocatecol)
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	0	0.5	0	0	0	0	0.5	0	100	206	2.9	0.0	2.9
		0.0075	200	1	1	0	0	0	0	2	0	88	210	4.8	0.0	4.8
		0.015	200	2	1	0	0	0	0	3	0	77	204	2.0	0.0	2.0
		0.03	200	1	2	0	0	0	0	3	1	66	203	1.5	0.0	1.5
		0.06	200	11.5	18	0	0	0	0	26.5	1	45	202	1.0	0.0	1.0
		0.09	187	42.8	57.2	0	0	0.5	71.7	0	48	190	1.6	0.0	1.6	
		0.12	TOX								23	TOX				
		[MMC] (0.0001)	200	12.5	50	0	0	0	55.5	0.5	-	203	1.5	0.0	1.5	
6-18	+	[DMSO] (1%)	200	0.5	1	0	0	0	1.5	0	100	203	1.5	0.0	1.5	
		0.03	200	1.5	0.5	0	0	0	2	0	87	202	1.0	0.0	1.0	
		0.06	200	1.5	2	0	0	0	3.5	0	91	201	0.5	0.0	0.5	
		0.09	200	0.5	2	0	0	0	2.5	0.5	71	201	0.5	0.0	0.5	
		0.12	200	7	10.5	0	0	0	16	0.5	62	204	0.5	1.5	2.0	
		0.15	200	19	40	0	0	0	45	0.5	51	200	0.0	0.0	0.0	
		0.18	154	53.2	79.2	0	0	1.9	87.7	0	37	154	0.0	0.0	0.0	
		[B[a]P] (0.01)	200	6	30.5	0	0	0	32.5	0	-	202	1.0	0.0	1.0	

※ 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] (%)	200	2.5	1.5	0	0	0	4	0	100	202	1.0	0.0	1.0
	0.005	200	2	2.5	0	0	0	4.5	0	100	201	0.5	0.0	0.5
	0.01	200	10.5	6	0	0	0	15.5	0.5	92	202	1.0	0.0	1.0
	0.02	200	47	41	0	0	0	66.5	0	83	205	2.4	0.0	2.4
	0.03	200	77.5	67.5	0	0	3	93.5	0	74	201	0.5	0.0	0.5
	[MMC] (0.00004)	200	20.5	55	0	0	0	65.5	0	—	201	0.5	0.0	0.5
48-0	[DMSO] (1%)	200	0	2	0	0	0	2	0	100	200	0.0	0.0	0.0
	0.005	200	2	3	0	0	0	4.5	0	84	203	1.5	0.0	1.5
	0.01	200	7	8	0	0	0	13	0	73	201	0.5	0.0	0.5
	0.015	200	10	20	0	0	0	25	0	58	206	2.9	0.0	2.9
	0.02	200	23.5	42.5	0	0	0	51.5	1	52	205	2.4	0.0	2.4
	0.025	200	22.5	52.5	0	0	0	59	0.5	37	210	4.8	0.0	4.8
	0.03	100	29	55	0	0	0	62	0	36	111	9.0	0.9	9.9
	[MMC] (0.00004)	200	31	82	0	0	0	86.5	0	—	201	0.5	0.0	0.5

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