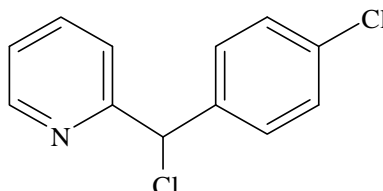


Chemical Name	: 2-(4, α -Dichlorobenzyl)pyridine
Synonym	: Pyridine, 2-[chloro(4-chlorophenyl)methyl]- (4-クロロフェニル)-2-ピリジルメチルクロリド* <u>PCC</u>
Molecular Weight	: 238.12
Melting Point	: -
Boiling Point	: 134-136°C(0.5mmHg)
Flashing Point	: -
Molecular Formula	: C ₁₂ H ₉ Cl ₂ N
Chemical Structure	
CAS No.	: 142404-69-1
MITI No.	: -
ML No.	: -
Specified Chemical Substances	: -
Source of Substance	: -
Lot No.	: -
Purity	: 98.5%
Vehicle	: Dehydrated DMSO

Treatment Time (h)	S9 mix	Concentration (mg/ml)	Cell with Structural Chromosome Aberration (%)							Gap g (%)	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] 1.0%	200	1.5	0	0	0	0	0	1.5	0	100	200	1.5	0	1.5
		0.14	200	0	1	0	0	0	0	1	0	94	200	1.5	0	1.5
		0.18	200	1.5	0	0	0	0	0	1.5	1	88	200	2	0	2
		0.22	200	0	2	0	0	0	0	2	0	79	200	3	0	3
		0.26	113	8	13.3	0	0	0	0	17.7	0	53	113	0.9	0	0.9
		0.30 †	TOX									31	TOX			
		[MMC] 0.00012	200	16	56	0	0	0	0	60.5	2	-	200	0	0	0
6-18	+	[DMSO] 1.0%	200	0	1	0	0	0	1	0	100	200	0	0	0	
		0.22	200	0.5	1.5	0	0	0	2	0	77	200	1	0	1	
		0.26	200	1.5	3.5	0	0	0	4.5	0.5	75	200	1	0	1	
		0.30 †	200	2.5	8.5	0	0	0	10	0.5	64	200	0.5	0	0.5	
		0.34 †	200	3.5	17	0	0	0	18.5	0.5	39	200	0.5	0	0.5	
		[B[a]P] 0.01	200	4	22.5	0	0.5	0	25	0.5	-	200	0.5	0	0.5	

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

† Test chemical was precipitated.

TOX : Metaphase cell division was not observed.

Judgement for

Chromosomal Aberration in CHL ; Positive

IARC Evaluation ; not yet cited

Experimental Data without Metabolic Activation (Continuous Treatments)

Treatment Time (h)	Concentration (mg/ml)	Cell with Structural Chromosome Aberration (%)							Gap g (%)	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	0.5	0	0	0	1	0	100	200	0	0	0
	0.025	200	0.5	0.5	0	0	0	1	0.5	91	200	1.5	0	1.5
	0.050	200	0	1	0	0	0	1	0	92	200	1.5	0	1.5
	0.10	200	0.5	1.5	0	0	0	2	0	83	200	4	0	4
	0.20 †	200	0.5	2	0	0	0	2.5	0	66	200	0	0	0
	0.30 †	TOX								38	TOX			
	[MMC] 0.00004	200	5.5	37	0	0	0	41	0.5	—	200	0.5	0	0.5
48-0	[DMSO] 1.0%	200	0	0.5	0	0	0	0.5	0.5	100	200	0.5	0	0.5
	0.025	200	0	0	0	0	0	0	0	104	200	0	0	0
	0.050	200	0	0	0	0	0	0	0	93	200	1	0	1
	0.10	200	0	1	0	0	0	1	0	85	200	1	0	1
	0.20 †	200	0	0	0	0	0	0	0	46	200	1.5	0	1.5
	0.30 †	TOX								19	TOX			
	[MMC] 0.00004	200	7.5	46.5	0.5	0	0	51.5	0.5	—	200	2	0	2

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