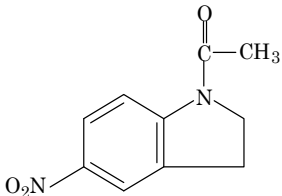


Chemical Name	: 1-Acetyl-5-nitroindoline
Synonym	: <u>1H-Indole, 1-acetyl-2,3-dihydro-5-nitro-</u> <u>N-アセチル-5-ニトロインドリン</u>
Molecular Weight	: 206.2
Melting Point	: 175-176°C[Aldrich]
Boiling Point	: -
Flashing Point	: -
Molecular Formula	: C ₁₀ H ₁₀ N ₂ O ₃
Chemical Structure	
CAS No.	: 33632-27-8
MITI No.	: -
ML No.	: 8-(1)-2305
Specified Chemical Substances	: -
Source of Substance	: -
Lot No.	: LF-5049
Purity	: -
Vehicle	: DMSO

Substance	Treatment		No. of Metaphase	Polyploid		Cell with Structural Chromosome Aberration (%)									
	Time (h)	Concentration (mg/ml)		No. of Metaphase	Judge-ment	Gap g	Chromatid ctb	Chromosome cte	Chromosome csb	Chromosome cse	Others	Total		Judge-ment	
												-g	+g		
DMSO	24	1.0%	200	1	-	0	0.5	0.5	0	0	0	1	1	-	
	48	1.0%	200	0.5	-	0	0.5	0	0	0	0	0.5	0.5	-	
Test Chemical	24	0.03	200	3.5	-	0	0	1	0	0	0	1	1	-	
		0.06	200	3	-	0	0.5	0.5	0	0	0	1	1	-	
		0.09	200	4.5	-	0	0	1	0	0	0	1	1	-	
		0.12	200	3.5	-	0.5	1.5	1.5	0	0	0	3	3.5	-	
		0.18	200	0.5	-	0.5	2	1	0	0	0	2.5	3	-	
		0.36	200	1.5	-	0.5	1.5	0.5	0	0	0	2	2.5	-	
		0.72	200	1	-	0.5	1.5	1	0	0	0	2.5	3	-	
	48	0.03	200	1	-	0	0.5	0.5	0	0	0	1	1	-	
		0.06	200	1.5	-	0	0	0	0	0	0	0	0	-	
		0.09	200	3.5	-	0	0	1	0	0	0	1	1	-	
		0.12	200	4.5	-	0.5	0	1	0	0.5	0	1.5	2	-	
		0.18	No obserbation for metaphase												
	Positive Control [MMC]	24	0.00004	200	1	-	2.5	7.5	17	0	0	0	22.5	23.5	+
		48	0.00004	200	0	-	0.5	7	19.5	0	0.5	0	24	24	+

Judgement for
Chromosomal Aberration in CHL ; Positive

IARC Evaluation ; not yet cited

※ There was no obserbation for methaphase with treatment of 24Hr and 48Hr at 1.5mg/ml.

※ The precipitation of test chemical was observed in the cultre medium over 0.18mg/ml.

Experimental Data with Metabolic Activation

(C9607-2/2)

Substance	Treatment		No. of Metaphase	Polyploid		Cell with Structural Chromosome Aberration (%)									
	S9 mix	Concentration (mg/ml)		(%)	Judgement	Gap g	Chromatid			Chromosome		Others	Total		Judgement
							ctb	cte	csb	cse	-g		+g		
DMSO	-	1.0%	200	1.5	-	0	0	0	0	0	0	0	0	-	
	+	1.0%	200	0.5	-	0	0	0.5	0	0	0	0.5	0.5	-	
Test Chemical	-	0.031	200	2	-	0	0.5	0	0	0	0	0.5	0.5	-	
		0.077	200	6.5	±	0	0	1	0	0	0	1	1	-	
		0.19	200	4	-	0	0	0	0	0	0	0	0	-	
		0.48	200	6	±	0.5	0	0.5	0	0	0	0.5	1	-	
		1.2	200	8.5	±	0	0.5	0.5	0	0.5	0	1.5	1.5	-	
		3.0	200	10.5	+	0	0	0.5	0	1	0	1.5	1.5	-	
	+	0.031	200	1.5	-	0	0	0	0	0	0	0	0	-	
		0.077	200	0	-	0	0	0.5	0	0	0	0.5	0.5	-	
		0.19	200	2.5	-	0	0.5	0	0	0	0	0.5	0.5	-	
		0.48	200	4.5	-	0	1	0.5	0	0	0	1.5	1.5	-	
		1.2	200	5	±	0.5	0.5	1	0	0.5	0	2	2.5	-	
		3.0	200	3.5	-	0	0	1	0	0	0	1	1	-	
Positive Control [B[a]P]	-	0.01	200	3	-	0	1	0.5	0	0	0	1.5	1.5	-	
	+	0.01	200	1	-	0.5	4	22.5	0	0	0	24.5	25	+	

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

※ The precipitation of test chemical was observed in the culture medium over 0.19mg/ml. It couldn't be administered over 3.0mg/ml.