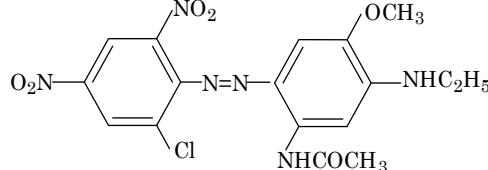


2'-(2-Chloro-4,6-dinitrophenylazo)-5'-ethylamino-4'-methoxyacetanilide
(2'-(2-クロロ-4,6-ジニトロフェニルアゾ)-5'-エチルアミノ-4'-メキシアセタニリド)

(C9703-1/3)

Chemical Name	; <u>2'-(2-Chloro-4,6-dinitrophenylazo)-5'-ethylamino-4'-methoxyacetanilide</u>
Synonym	; Acetamide, <i>N</i> -[2-[(2-chloro-4,6-dinitrophenyl)azo]-5-(ethylamino)-4-methoxyphenyl]-
Molecular Weight	; 436.81
Melting Point	; 258-259°C
Boiling Point	; -
Flashing Point	; -
Molecular Formula	; C ₁₇ H ₁₇ ClN ₆ O ₆
Chemical Structure	
CAS No.	; 170778-70-8
MITI No.	; (3)-3665
ML No.	; -
Specified Chemical Substances	; -
Source of Substance	; -
Lot No.	; -
Purity	; >99%
Vehicle	; DMSO

Experimental Data without Metabolic Activation-1

Substance	Time (h)	Concen-t- ration (mg/ml)	No. of Metaphase	Treatment		Polyplloid		Cell with Structural Chromosome Aberration (%)					
				(%)	Judge- ment	Gap g	Chromatid ctb	cte	Chromosome csb	cse	Others	Total -g	+g
Test Chemical	24	DMSO	200	0.5	-	0	1	0	0	0	0	1	1
			200	0	-	0	0	0	0	0	0	0	0
			200	0.0025	0	0.5	1.5	0.5	0	0	0	2	2
			200	0.0050	0.5	0	1.5	1	0	0	0	2.5	2.5
			200	0.010	1	0.5	1.5	0.5	0	0	0	1.5	2
	48		200	0.020	0	0	0.5	0.5	0	0	0	1	1
			200	0.040	0.5	0	0	1	0	0	0	1	1
			200	0.0025	1	0.5	0	0.5	0	0.5	0	1	1.5
			200	0.0050	1	0	1	0.5	0	0	0	1.5	1.5
			200	0.010	0.5	0	0	0	0	0	0	0	0
Positive Control [MMC]	24	0.00004	200	0.5	-	1	8.5	33	0	0	0	38	38
	48	0.00004	200	0	-	1	11	46.5	0	0.5	0	51	51.5

※ The precipitation of test chemical was observed in the culture medium over 0.01mg/ml.

Judgement for
 Chromosomal Aberration in CHL ; Positive

IARC Evaluation ; not yet cited

(C9703-2/3)

Experimental Data without Metabolic Activation-2

Substance	Time (h)	Concen- tration (mg/ml)	Treatment	No. of Metaphase	Polyploid		Cell with Structural Chromosome Aberration (%)							
					(%)	Judge- ment	Gap	Chromatid	Chromosome	Others	Total		Judge- ment	
							g	ctb	cte		-g	+g		
DMSO	28-20*	1.0%	200	0	—	0	0	1	0	0	0	1	1	—
Test Chemical	28-20*	0.0050	200	3.5	—	0	0.5	0	0	0	0	0.5	0.5	—
		0.010	200	4.5	—	0	1.5	0	0	0	0	1.5	1.5	—
		0.020	200	5	±	1	0	1.5	0	0	0	1.5	2.5	—
		0.040	200	7	±	0.5	0	1	0	0	0	1	1.5	—
		0.060	200	12	+	0.5	0.5	3	0	0	0	3.5	4	—
		0.080	200	12	+	0	1	2.5	0	0	0	3.5	3.5	—
Positive Control [MMC]	48-0	0.00004	200	0	—	1.5	6	35	0	0.5	0	37	38	+

* Test conditions: Treatment time ; 28h, Recovery time ; 20h

※ The precipitation of test chemical was observed in the culture medium over 0.01mg/ml.

Experimental Data with Metabolic Activation

Substance	Treatment			No. of Metaphase	Polyploid		Cell with Structural Chromosome Aberration (%)							Judge- ment		
	S9 mix	Concen- tration (mg/ml)	(%)		Judge- ment	Gap	Chromatid		Chromosome		Others	Total				
						g	ctb	cte	csb	cse		-g	+g			
DMSO	—	1.0%	200	1	—	0	0	0	0	0	0	0	0	—		
	+	1.0%	200	1.5	—	0	0	1	0	0	0	1	1	—		
Test Chemical	—	0.038	200	1.5	—	0.5	0	1	0	0	0	1	1.5	—		
		0.075	200	0.5	—	0	0	0	0	0	0	0	0	—		
		0.15	200	0	—	0	0	0.5	0	0	0	0.5	0.5	—		
		0.30	200	0.5	—	0	0.5	0	0	0.5	0	1	1	—		
		0.60	200	0.5	—	0	0	0.5	0	0	0	0.5	0.5	—		
		1.2	200	1	—	0	0.5	0	0	0	0	0.5	0.5	—		
	+	0.038	200	1	—	0	0.5	0.5	0	0	0	1	1	—		
		0.075	200	0.5	—	0	0.5	0.5	0	0	0	1	1	—		
		0.15	200	1	—	0	0	0	0	0	0	0	0	—		
		0.30	200	2	—	0	0	0	0	0	0	0	0	—		
		0.60	200	2	—	0	0	0	0	0	0	0	0	—		
		1.2	200	0.5	—	0	0	0	0	0	0	0	0	—		
Positive Control [B[a]P]	—	0.01	200	0.5	—	0.5	0	0	0	0	0	0	0.5	—		
	+	0.01	200	0	—	0.5	3.5	28	0	0.5	0	29.5	30	+		

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

※ The precipitation of test chemical was observed in the culture medium of all concentration.