

2'-(2-Chloro-4,6-dinitrophenylazo)-5'-diethylamino-4'-methoxyacetanilide
 (2'-(2-クロロ-4,6-ジニトロフェニルアゾ)-5'-ジエチルアミノ-4'-メトキシアセトアニリド)

(C9702-1/3)

Experimental Data without Metabolic Activation-1

Chemical Name	: <u>2'-(2-Chloro-4,6-dinitrophenylazo)-5'-diethylamino-4'-methoxyacetanilide</u>
Synonym	: Acetamide, <i>N</i> -[2'-(2-chloro-4,6-dinitrophenyl)azo]-5-(diethylamino)-4-methoxyphenyl]-
Molecular Weight	: 464.86
Melting Point	: 202-203°C
Boiling Point	: -
Flashing Point	: -
Molecular Formula	: C ₁₉ H ₂₁ ClN ₆ O ₆
Chemical Structure	
CAS No.	: 79295-99-1
MITI No.	: (3)-3664
ML No.	: -
Specified Chemical Substances	: -
Source of Substance	: -
Lot No.	: -
Purity	: 98.5%
Vehicle	: DMSO

Substance	Treatment		No. of Metaphase	Polyploid		Cell with Structural Chromosome Aberration (%)									
	Time (h)	Concentration (mg/ml)		%	Judgement	Gap g	Chromatid			Chromosome		Others	Total		Judgement
							ctb	cte	csb	cse	-g		+g		
DMSO	24	1.0%	200	0.5	-	0	0	0.5	0	0	0	0.5	0.5	-	
	48	1.0%	200	0.5	-	0	0	0.5	0	0	0	0.5	0.5	-	
Test Chemical	24	0.0020	200	0.5	-	0	1.5	1	0	0	0	2.5	2.5	-	
		0.0040	200	0.5	-	0	1	0.5	0	0	0	1	1	-	
		0.0060	200	1	-	0	0.5	0	0	0	0	0.5	0.5	-	
		0.0080	141	3.5	-	0.7	1.4	0.7	0	0	0	2.1	2.8	-	
		0.010	No obserbation for metaphase												
	48	0.0020	200	0.5	-	0	0.5	0.5	0	0	0	0.5	0.5	-	
		0.0040	200	0.5	-	0	0	1	0	0	0	1	1	-	
		0.0060	200	1.5	-	0	0	0	0	0	0	0	0	-	
		0.0080	200	3	-	0	0	0.5	0	0	0	0.5	0.5	-	
		0.010	200	3	-	0	0	0.5	0	0	0	0.5	0.5	-	
Positive Control [MMC]	24	0.00004	200	0	-	1.5	8	35.5	0	0	0	40.5	41	+	
	48	0.00004	200	1	-	0.5	11	60	0	1	0	64	64	+	

Judgement for Chromosomal Aberration in CHL ; Equivocal

IARC Evaluation ; not yet cited

Experimental Data without Metabolic Activation-2

Treatment			No. of Metaphase	Polyploid		Cell with Structural Chromosome Aberration (%)								
Substance	Time (h)	Concent- ration (mg/ml)		(%)	Judge- ment	Gap	Chromatid		Chromosom		Others	Total		Judge- ment
						g	ctb	cte	csb	cse		-g	+g	
DMSO	28-20*	1.0%	200	1.5	—	0	0	0	0	0	0	0	0	—
Test Chemical	28-20*	0.0015	200	2	—	0.5	0	0.5	0	0	0	0.5	1	—
		0.0030	200	0.5	—	0	0.5	0.5	0	0	0	1	1	—
		0.0060	200	2	—	0	0	0	0.5	0	0	0.5	0.5	—
		0.0090	200	6.5	±	0	0	0.5	0	0	0	0.5	0.5	—
		0.012	162	5.6	±	0	0	0.6	0	0	0	0.6	0.6	—
Positive Control [MMC]	48-0	0.00004	200	0.5	—	1.5	20.5	39	0.5	0.5	0	47.5	47.5	+

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

Experimental Data with Metabolic Activation

Treatment			No. of Metaphase	Polyploid		Cell with Structural Chromosome Aberration (%)								
Substance	S9 mix	Concent- ration (mg/ml)		(%)	Judge- ment	Gap g	Chromatid		Chromosome		Others	Total		Judge- ment
							ctb	cte	csb	cse		-g	+g	
DMSO	-	1.0%	200	0	-	0	0	0	0	0	0	0	0	-
	+	1.0%	200	0	-	0	0	0	0	0	0	0	0	-
Test Chemical	-	0.0031	200	0	-	0.5	0	0.5	0	0	0	0.5	1	-
		0.0063	200	0.5	-	0	0	0	0	0	0	0	0	-
		0.013	133	0	-	0	0.8	0	0	0	0	0.8	0.8	-
		0.025	No obserbation for metaphase											
	+	0.013	200	0	-	0	0	0	0	0	0	0	0	-
		0.025	200	0.5	-	0	0	1	0	0	0	1	1	-
		0.050	200	0	-	0	0	0.5	0	0	0	0.5	0.5	-
		0.10	200	0.5	-	0	0.5	1.5	0	0	0	2	2	-
		0.20	200	1	-	0	0	1	0	0	0	1	1	-
Positive Control [B[a]P]	-	0.01	200	0	-	1	0.5	0	0	0	0.5	1.5	-	
	+	0.01	200	0	-	0	5	48.5	0	0	0	50	50	+

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

※ The precipitation of test chemical was observed in the cultre medium over 0.1mg/ml.