

2'-(2-Chloro-4,6-dinitrophenylazo)-5'-(diethylamino) acetanilide  
 (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)アセトアニリド)

(C9701-1/3)

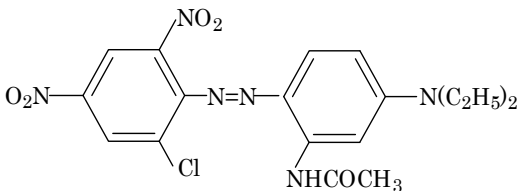
Experimental Data without Metabolic Activation-1

Chemical Name ; 2'-(2-Chloro-4,6-dinitrophenylazo)-5'-(diethylamino)acetanilide

Synonym ; Acetamide, *N*-[2-[(2-chloro-4,6-dinitrophenyl)azo]-5-(diethylamino)phenyl]-

Molecular Weight ; 434.84  
 Melting Point ; 183-184°C  
 Boiling Point ; -  
 Flashing Point ; -  
 Molecular Formula ; C<sub>18</sub>H<sub>19</sub>ClN<sub>6</sub>O<sub>5</sub>

Chemical Structure



CAS No. ; 66557-45-7  
 MITI No. ; (3)-3662  
 ML No. ; -  
 Specified Chemical Substances ; -

Source of Substance ; -  
 Lot No. ; -  
 Purity ; 99.3%

Vehicle ; DMSO

Substance	Treatment		No. of Metaphase	Polyploid		Cell with Structural Chromosome Aberration (%)									
	Time (h)	Concentration (mg/ml)		%	Judgement	Gap g	Chromatid			Chromosom		Others	Total		Judgement
							ctb	cte	csb	cse	-g		+g		
DMSO	24	1.0%	200	1	-	0.5	0	0	0	0	0	0	0	0.5	-
	48	1.0%	200	1	-	0.5	0.5	0.5	0	0	0	0	0.5	1	-
Test Chemical	24	0.0025	200	0.5	-	0	1	1.5	0	0	0	0	2.5	2.5	-
		0.0050	200	1	-	0	0	0.5	0	0	0	0	0.5	0.5	-
		0.010	200	1.5	-	0	0	0.5	0	0	0	0	0.5	0.5	-
		0.020	150	0	-	0	0	0.7	0	0	0	0	0.7	0.7	-
		0.030	96	0	-	1.0	0	0	0	0	0	0	0	1.0	-
	48	0.0025	200	0.5	-	0	0	0.5	0	0.5	0	0	1	1	-
		0.0050	200	0	-	0	0	0.5	0	0.5	0	0	1	1	-
		0.010	200	1	-	0	0.5	1.5	0	0	0	0	1.5	1.5	-
		0.020	115	0.9	-	0.9	0.9	0.9	0	0	0	0	1.7	2.6	-
		0.030	No obserbation for metaphase												
Positive Control [MMC]	24	0.00004	200	0.5	-	1	10.5	36.5	0	0	0	42.5	43	+	
	48	0.00004	200	0.5	-	1.5	8	58.5	0	0.5	0	61	61.5	+	

Judgement for Chromosomal Aberration in CHL ; Negative

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

IARC Evaluation ; not yet cited

Experimental Data without Metabolic Activation-2

Treatment			No. of Metaphase	Polyploid		Cell with Structural Chromosome Aberration (%)								
Substance	Time (h)	Concentration (mg/ml)		(%)	Judge- ment	Gap g	Chromatid		Chromosom		Others	Total		Judge- ment
							ctb	cte	csb	cse		-g	+g	
DMSO	28-20*	1.0%	200	1.5	—	0.5	1	0.5	0.5	0	0	1.5	1.5	—
Test Chemical	28-20*	0.0013	200	0.5	—	0	1	0.5	0	0	0	1.5	1.5	—
		0.0025	200	1	—	0	0	1.5	0	0	0	1.5	1.5	—
		0.0050	200	1.5	—	0.5	0.5	0	0	0.5	0	1	1.5	—
		0.010	200	0	—	0	0	1	0	0	0	1	1	—
		0.020	200	4	—	0	0	1.5	0	0	0	1.5	1.5	—
		0.030	155	1.3	—	1.3	0	1.9	0	0	0	1.9	3.2	—
Positive Control [MMC]	48-0	0.00004	200	0.5	—	0.5	13.5	51.5	0.5	1	0	56.5	57	+

\* 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

Treatment			No. of Metaphase	Polyploid		Cell with Structural Chromosome Aberration (%)									
Substance	S9 mix	Concent- ration (mg/ml)		(%)	Judge- ment	Gap g	Chromatid			Chromosom		Others	Total		Judge- ment
							ctb	cte	csb	cse	-g		+g		
DMSO	-	1.0%	200	1	-	0.5	0	0	0	0	0	0	0.5	-	
	+	1.0%	200	0	-	0.5	0	0	0	0	0	0	0.5	-	
Test Chemical	-	0.010	200	0	-	0	0	0	0	0	0	0	0	-	
		0.020	200	0.5	-	0	0.5	0.5	0	0	0	1	1	-	
		0.040	200	0.5	-	0.5	0	0	0	0	0	0	0.5	-	
		0.080	200	1.5	-	0	0.5	0	0	0	0	0.5	0.5	-	
		0.16	200	1	-	0	0	2	0	0	0	2	2	-	
		0.32	200	1.5	-	0	2	1.5	0	0	0	3.5	3.5	-	
	+	0.010	200	0.5	-	0	0	0.5	0	0	0	0.5	0.5	-	
		0.020	200	1	-	0	0	1	0	0	0	1	1	-	
		0.040	200	2.5	-	0	0	0	0	0	0	0	0	-	
		0.080	200	1	-	0	0.5	1	0	0	0	1	1	-	
		0.16	200	1.5	-	0	0	0.5	0	0	0	0.5	0.5	-	
		0.32	200	1.5	-	0	0	0	0	0	0	0	0	-	
	Positive Control [B[a]P]	-	0.01	200	0	-	0	0	0	0	0	0	0	-	
		+	0.01	200	0.5	-	1.5	0	48.5	6	0.5	0	51.5	52	+

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

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