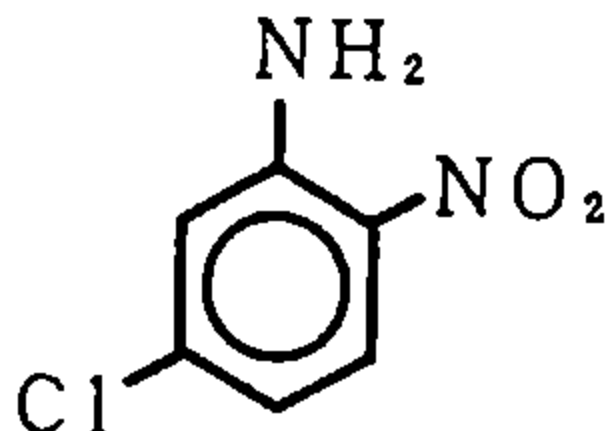


5-Chloro-2-nitroaniline (5-クロロ-2-ニトロアニリン)

Chemical Name:	5-Chloro-2-nitroaniline
Synonym	Benzenamine, 5-chloro-2-nitro-
Molecular weight:	172.6
Melting point:	128-129°C
Boiling point:	°C
Chemical Structure	
CAS No :	1635-61-6
MITI No :	(3)-407
Source of Substance:	Tokyo Kasei Kogyo Co., Ltd.
Lot.No. :	AX01
Purity:	99.9%
Vehicle:	DMSO

Judgement for Chromosomal Aberration in CHL: Positive

IARC Evaluation : not yet cited

Experimental Data

Treated Time (Hr)	Concentration (mg/ml)	No. of Meta-phase	Poly-ploid (%)	Judge	Cell with Structural Chromosome Aberration (%)								
					Gap	CTB	CTE	CSB	CSE	Total		Judge	
										-G	+G		
DMSO	24	200	0.5	-	1.0	0.5	1.0	0	0	1.5	2.5	-	
	48	200	0	-	0	0	0.5	0	0	0.5	0.5	-	
Test Chemical	24	0.04	200	3.0	-	0	0	1.5	0	0.5	2.0	2.0	-
		0.08	200	1.5	-	0.5	0	2.5	0	0	2.5	3.0	-
		0.12	200	0.5	-	1.0	0	1.0	0	0	1.0	2.0	-
		0.16	110	0	-	0.9	2.7	0.9	0	0	2.7	4.5	-
		0.20											
	48	0.04	200	4.0	-	0	0.5	0.5	0	0.5	1.5	1.5	-
		0.08	200	12.0	+	0.5	0	0.5	0	0	0.5	1.0	-
		0.12	24	8.3	±	0	0	0	0	0	0	0	-
		0.16				No observation for metaphase							
		0.20				No observation for metaphase							
Positive Control (MMC)	24	200	0.5	-	2.5	10.0	47.0	0	0	50.0	50.5	+	
	48	200	0	-	4.0	13.5	70.5	0	0	71.0	71.0	+	

Experimental Data

Treated Time (Hr)	Concentration (mg/ml)	No. of Meta-phase	Polyploid (%)	Judge	Cell with Structural Chromosome Aberration (%)							Judge	
					Gap	CTB	CTE	CSB	CSE	Total			
										-G	+G		
DMSO	48	200	0.5	-	0.5	1.0	0.5	0	0	1.5	2.5	-	
Test Chemical													
	48	0.030	200	4.5	-	0	0	1.0	0	0	1.0	1.0	-
		0.060	200	11.0	+	0.5	0	0	0	0	0	0.5	-
		0.090	200	14.0	+	0	0.5	1.0	0	0.5	1.5	1.5	-
		0.12	164	11.0	+	0.6	0	1.2	0	0	1.2	1.8	-
		0.15				No observation for metaphase							
Positive Control													
(MMC)	48		200	1.0	-	3.5	12.0	48.5	0	0	52.0	52.5	+

Experimental Data

S 9 with or without	Concentration (mg/ml)	No. of Meta- phase	Poly- ploid (%)	Judge	Cell with Structural Chromosome Aberration (%)								
					Gap	CTB	CTE	CSB	CSE	Total		Judge	
										-G	+G		
DMSO	-	200	0.5	-	0.5	1.0	0	0	0	1.0	1.5	-	
	+	200	0	-	0	0.5	0.5	0	0	1.0	1.0	-	
Test Chemical													
-	0.025	200	7.0	±	0.5	0	0.5	0	1.0	1.5	2.0	-	
	0.05	200	9.5	±	0.5	0	0	0	0	0	0.5	-	
	0.1	200	9.5	±	0.5	0.5	0.5	0	0	1.0	1.5	-	
	0.2	200	0.5	-	0.5	2.0	5.5	0	0	7.5	8.0	±	
	0.4				No observation for metaphase								
	+	0.025	200	2.0	-	0	1.0	1.5	0	0	2.5	2.5	-
		0.05	200	2.5	-	0.5	0.5	7.5	0	1.0	9.0	9.0	±
		0.1	200	5.0	±	0.5	0	6.5	0	0	6.5	7.0	±
		0.2	200	4.5	-	1.0	1.0	6.0	0	0.5	7.5	8.5	±
		0.4	184	2.7	-	2.2	3.8	14.0	0	0.5	17.9	19.0	+
Positive Control (CP)													
-		200	0	-	1.0	0	0.5	0	0	0.5	1.5	-	
+		200	0	-	2.5	7.5	55.5	0	0.5	58.0	58.0	+	

Metaphase was not observed at the concentration of 0.6mg/ml.