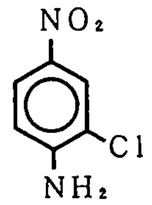
2-Chloro-4-nitroaniline (2-クロロ-4-ニトロアニリン)

Chemical Name: 2-Chloro-4-nitroaniline
Synonym Benzamine, 2-chloro-4-nitro-
Molecular weight: 172.6
Melting point: 107-109℃

Chemical Structure



CAS No : 121-87-9
MITI No : (3)-407
ML No : 4-(12)-118
Source of Substance: Tokyo Kasei Kogyo Co., Ltd.
Lot.No. : AZ01
Purity:
Vehicle: DMSO

Judgement for
Chromosomal Aberration in CHL: Positive

IARC Evaluation : not yet cited

Experimental Data

	Treated Time (Hr)	Concentration (mg/ml)	No. of Metaphase	Polyploid (%)	Judge	Cell with Structural Chromosome Aberration (%) Gap	CTB	CTE	CSB	CSE	Total -G	Total +G	Judge
DSMO	24		200	0	−	0.5	0.5	0.5	0	0	1.0	1.5	−
	48		200	0	−	0	0	0	0	0	0	0	−
Test Chemical													
	24	0.04	200	3.0	−	0.5	0	0	0	0	0	0.5	−
		0.08	200	4.5	−	0	1.0	0.5	0	0	1.5	1.5	−
		0.12	200	2.0	−	0.5	0	0	0	0	0	0.5	−
		0.16	200	0.5	−	1.0	0.5	0	0	0	0.5	1.0	−
		0.20	200	0	−	0	1.5	0	0	0	1.5	1.5	−
	48	0.04	200	2.0	−	1.0	0	0	0	0	0	1.0	−
		0.08	200	23.0	+	0	1.0	0.5	0	0	1.5	1.5	−
		0.12	200	8.5	±	0.5	0.5	0	0	0	0.5	1.0	−
		0.16				No observation for metaphase							
		0.20				No observation for metaphase							
Positive Control													
(MMC)	24	0.00008	200	0.5	−	2.5	6.0	12.0	0	0	18.0	20.0	+
	48	0.00008	200	0	−	3.0	5.5	17.0	0	0	20.5	22.0	+

aphase was not observed at the concentration of 0.24mg/ml.

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 -G	Total +G	Judge
DSMO −		200	0	−	0	0.5	0	0	0	0.5	0.5	−
+		200	0	−	1.5	0	0.5	0	0	0.5	2.0	−
Test Chemical												
−	0.10	200	6.5	±	0	0.5	0	0	0	0.5	0.5	−
	0.15	200	5.5	±	0	0.5	0	0	0	0.5	0.5	−
	0.20	200	2.0	−	0	1.0	5	0	0	5.5	5.5	±
	0.25	200	0.5	−	2.0	6.0	20.5	1.0	0	23.5	25.0	+
	0.30				No observation for metaphase							
+	0.10	200	2.0	−	0.5	1.0	0	0	0	1.0	1.5	−
	0.15	200	2.0	−	0.5	0.5	0	0	0	0.5	1.0	−
	0.20	200	1.5	−	4.5	8.0	20.5	0.5	0	25.0	26.5	+
	0.25	142	0	−	4.9	9.9	13.4	0	0	19.7	19.7	+
	0.30				No observation for metaphase							
Positive Control												
(B(a)P)−	0.008	200	0.5	−	0	0	0	0	0	0	0	−
+	0.008	200	0	−	4.0	7.0	28.0	0	0	30.5	31.5	+