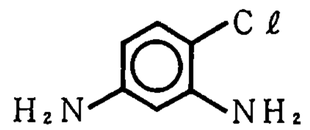
2,4-Diaminochlorobenzene (2,4-ジアミノクロロベンゼン)

Chemical Name: 2,4-Diaminochlorobenzene
Synonym 1,3-Benzenediamine,4-chloro-
Molecular weight: 142.5
Melting point: 103℃
Boiling point: 323℃
Flashing point: 148-153 ℃

Chemical Structure



CAS No : 5131-60-2
MITI No : (3)-267
Source of Substance: Tokyo Kasei Kogyo Co., Ltd.
Lot.No.: FCZ02
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	2.5	−	0	0	0	0	0	0	0	−
	48		200	0	−	0	0	0	0	0	0	0	−
Test Chemical													
	24	0.15	200	0	−	0.5	0	2.5	0	0	2.5	3.0	−
		0.30	200	0.5	−	0	0.5	1.0	0	0	1.5	1.5	−
		0.60	200	0.5	−	0.5	1.0	1.5	0	0	2.5	3.0	−
		1.2	200	1.0	−	1.0	0.5	1.0	0	0	1.5	3.0	−
		2.4				No observation for metaphase							
	48	0.15	200	0	−	0.5	0	0.5	0	0	0.5	1.0	−
		0.30	200	0	−	1.5	0	2.5	0	0	2.5	4.0	−
		0.60	200	0	−	3.5	4.5	24.0	0	0	26.0	27.0	+
		1.2	200	0	−	2.0	1.5	6.5	0	0	7.5	8.5	±
		2.4				No observation for metaphase							
Positive Control													
(MMC)	24	0.00005	200	0	−	1.5	7.5	28.0	0	0	32.0	32.5	+
	48	0.00005	200	0	−	2.0	11.5	50.0	0	0.5	54.5	55.0	+

Experimental Data

	S 9 with or without	Concentration (mg/ml)	No. of Metaphase	Polyploid (%)	Judge	Cell with Structural Chromosome Aberration (%)							
											Total		
						Gap	CTB	CTE	CSB	CSE	-G	+G	Judge
DSMO	−		200	1.0	−	0	0.5	0	0	0	0.5	0.5	−
	+		200	0.5	−	0.5	0	0	0	0.5	0.5	1.0	−
Test Chemical													
	−	0.050	200	0	−	0	0.5	0.5	0	0	1.0	1.0	−
		0.10	200	0	−	0	0	0.5	0	0	0.5	0.5	−
		0.20	200	0.5	−	0.5	0	0.5	0	0	0.5	1.0	−
		0.40	200	0	−	0.5	0	0	0	0	0	0.5	−
		0.80	200	1.0	−	0.3	1.0	0.5	0	0	1.0	1.5	−
	+	0.050	200	0.5	−	0.5	0	0	0	0	0	0.5	−
		0.10	200	1.5	−	0	0.5	0	0	0	0.5	0.5	−
		0.20	200	0.5	−	0.5	0.5	1.0	0	0	1.5	2.0	−
		0.40	200	0	−	2.5	2.5	6.5	0	0	8.0	9.0	±
		0.80	200	1.0	−	6.5	7.0	15.0	0	0	17.0	20.0	+
Positive Control													
(B(a)P)	−		0	1.0	−	0.5	0	0.5	0	0	0.5	1.0	−
	+		0	0	−	3.5	3.0	24.0	0	0	27.0	29.0	+