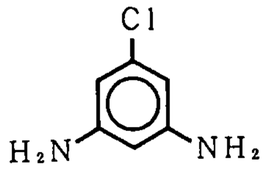
3,5-Diaminochlorobenzene (3,5-ジアミノクロロベンゼン)

Chemical Name: 3,5-Diaminochlorobenzene
Synonym 1,3-Benzenediamine,5-chloro-
Molecular weight: 142.6
Melting point: ℃
Boiling point: ℃

Chemical Structure



CAS No : 33786-89-9
MITI No : (3)-267
Source of Substance: Tokyo Kasei Kogyo Co., Ltd.
Lot.No.: FBP01
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	0.5	0	0	0	0.5	0.5	−
	48		200	0	−	1.5	0.5	0.5	0	0	1.0	2.5	−
Test Chemical													
	24	0.6	200	1.0	−	0.5	0.5	1.0	0	0	1.5	2.0	−
		0.9	200	0.5	−	1.0	1.5	2.0	0	0	3.5	4.5	−
		1.2	200	0	−	3.0	4.5	2.5	0	0	6.5	9.0	±
		1.5				No observation for metaphase							
	48	0.6	200	2.0	−	0	0	1.0	0	0	1.0	1.0	−
		0.9	200	7.5	±	1.0	0.5	1.0	0	0	1.5	2.5	−
		1.2	151	13.2	+	4.6	7.3	7.3	0	0	15.2	17.9	+
		1.5				No observation for metaphase							
Positive Control (MMC)	24	0.00008	200	0.5	−	6.0	21.0	21.0	0	0.5	72.0	73.0	+
	48	0.00008	200	1.5	−	9.0	25.0	25.0	0	1.0	84.0	84.5	+

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 -G	Total +G	Judge
DSMO	−		200	0	−	0.5	0	0	0	0	0	0.5	−
	+		200	0	−	0.5	0	0.5	0	0	0.5	1.0	−
Test Chemical													
	−	0.0003	200	0.5	−	0.5	0.5	0	0	0.5	1.0	1.5	−
		0.0006	200	1.0	−	0.5	0	0.5	0	0	0.5	1.0	−
		0.0012	200	0	−	0	0	0.5	0	0	0.5	0.5	−
		0.0024	200	0	−	0.5	0	1.0	0	0	1.0	1.5	−
		0.0048	200	0	−	0.5	0.5	0.5	0	0	1.0	1.5	−
	+	0.0003	200	0	−	1.0	0	0.5	0	0	0.5	1.5	−
		0.0006	200	0	−	0.5	0.5	0	0	0	0.5	1.0	−
		0.0012	200	0.5	−	1.0	1.0	1.5	0	0	2.0	3.0	−
		0.0024	200	0	−	1.5	2.0	14.5	0	0	15.5	16.5	+
		0.0048	200	2.5	−	3.0	7.5	16.5	0	0	20.5	21.5	+
Positive Control													
(B(a)P)	−	0.008	200	0	−	0.5	0	0.5	0	0	0.5	1.0	−
	+	0.008	200	0	−	3.0	4.0	16.5	0	0	19.0	20.5	+