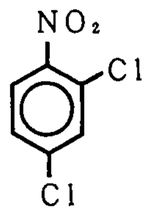
2,4-Dichloronitrobenzene (2,4-ジクロロニトロベンゼン)

Chemical Name: 2,4-Dichloronitrobenzene
Synonym 1,3-Dichloro-4-nitrobenzene
Benzene, 2,4-dichloro-1-nitro-
Molecular weight: 192.0
Melting point: 29-33℃
Boiling point: 258.5℃
Flashing point: >110℃

Chemical Structure



CAS No : 611-06-3
MITI No : (3)-455
Source of Substance: Tokyo Kasei Kogyo Co., Ltd.
Lot.No.: FBV01
Purity: 99%
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
DMSO	24		200	2.5	−	0	0	0.5	0	0	0.5	0.5	−
	48		200	2.0	−	0	0	1.0	0	0	1.0	1.0	−
Test Chemical													
	24	0.025	200	1.5	−	0	0	2.5	0	0	2.5	2.5	−
		0.05	200	2.5	−	0	0.5	0	0	0	0.5	0.5	−
		0.1	200	4.0	−	0	0.5	0	0	0	0.5	0.5	−
		0.2	200	4.0	−	1.0	1.0	1.5	0.5	0	2.5	3.5	−
		0.3				No observation for metaphase							
	48	0.025	200	0	−	0.5	0	0.5	0	0	0.5	1.0	−
		0.05	200	2.5	−	0	0	0	0	0	0	0	−
		0.1	200	5.5	±	0	0.5	1.0	0	0	1.5	1.5	−
		0.2	200	5.5	±	0	0	0	0	0	0	0	−
		0.3				No observation for metaphase							
Positive Control (MMC)	24		200	0	−	1.5	4.0	27.5	0	0	30.0	31.0	+
	48		200	3.0	−	2.5	9.0	37.5	0	0	41.5	42.5	+

Experimental Data

	S 9 with or without	Concentration (mg/ml)	No. of Metaphase	Polyploid (%)	Judge	Cell with Structural Chromosome Aberration (%) Gap	CTB	CTE	CSB	CSE	Total -G	Total +G	Judge
DMSO	−		200	1.0	−	0.5	0	1.0	0	0	1.0	1.5	−
	+		200	0.0	−	0.0	0	1.5	0	0	1.5	1.5	−
Test Chemical													
	−	0.025	200	0.5	−	0	0	0	0	0	0	0	−
		0.05	200	1.5	−	0	1.0	2.0	0	0	3.0	3.0	−
		0.1	200	2.5	−	0	0	0	0	0	0	0	−
		0.15	200	1.5	−	0	0	2.5	0	0	2.5	2.5	−
		0.2	200	6.5	±	0	0.5	3.5	0	0	4.0	4.5	−
	+	0.025	200	1.0	−	0	1.0	0.5	0	0	1.0	1.0	−
		0.05	200	6.0	±	0	1.0	3.0	0	0	3.5	3.5	−
		0.1	200	0.5	−	2.5	6.0	17.5	0	0	22.0	23.0	+
		0.15	200	0.0	−	10.5	29.0	41.0	0	0	49.0	51.5	+
		0.2	No observation for metaphase										
Positive Control (CP)	−		200	0	−	0	0.5	0.5	0	0	1.0	1.0	−
	+		200	0	−	1.0	6.0	33.0	0	0	36.5	36.5	+