3-Chloro-2-fluoronitrobenzene (3-クロロ-2-フルオロニトロベンゼン)

Experimental Data

Chemical Name: 3-Chloro-2-fluoronitrobenzene
Synonym
Molecular weight:
Melting point: 175.5℃
Boiling point: ℃

Chemical Structure

CAS No : 2106-49-2

Source of Substance:
Lot.No.:
Purity: %
Vehicle: DMSO

Judgement for
Chromosomal Aberration in CHL: Positive

IARC Evaluation : not yet cited

	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	0.5 %	200	0	−	0	0	0	0	0	0	0	−
	48	0.5 %	200	0	−	0	0	0	0	0	0	0	−
Test Chemical													
	24	0.0025	200	2.5	−	1.0	0	0	0	0	0	1.0	−
		0.005	200	4.5	−	0.5	0.5	1.5	0	0	2.0	2.5	−
		0.01	200	1.5	−	1.0	2.0	2.0	0	0	3.5	4.5	−
		0.015	200	0.5	−	30.0	39.0	9.0	0	2.0	44.5	49.5	+
		0.02				No observation for metaphase							
	48	0.0025	200	1.5	−	1.0	0	1.0	0	0	1.0	2.0	−
		0.005	200	2.0	−	0.5	0	0.5	0	0	0.5	1.0	−
		0.01	200	6.5	±	0	2.5	2.5	0	0	4.5	4.5	−
		0.015	200	19.5	+	6.0	9.0	13.5	0	0.5	21.0	21.5	+
		0.02				No observation for metaphase							
Positive Control													
(MMC)	24	0.00008	200	0	−	5.5	6.5	27.5	0	0	32.5	34.0	+
	48	0.00008	200	0	−	4.5	11.5	52.5	0	0.5	56.0	56.5	+

Experimental Data

S 9 with or without	Concentration (mg/ml)	No. of Meta-Phase	Poly-ploid (%)	Judge	Cell with Structural Chromosome Aberration (%) CTG Gap	CTB	CTE	FRG CSB	CSE	Total -G	+G	Judge
DSMO −		200	0.5	−	0.5	0.5	0	0	0	0.5	1.0	−
+		200	0	−	0	0	0.5	0	0	0.5	0.5	−
Test Chemical												
−	0.005	200	5.0	±	0.5	1.0	1.0	0	0	2.0	2.5	−
	0.01	200	7.0	±	2.0	0.5	2.0	0	0	2.5	4.5	−
	0.02	200	3.0	−	4.0	5.5	3.0	0	0	8.5	10.5	+
	0.03				No observation for metaphase							
	0.04				No observation for metaphase							
+	0.005	200	0	−	0.5	0	1.5	0	0	1.5	2.0	−
	0.01	200	2.0	−	0.5	1.0	0.5	0	0	1.5	2.0	−
	0.02	200	1.5	−	4.5	6.5	11.0	0	0	17.0	18.5	+
	0.03	126	0	−	15.1	34.1	37.3	0	0	53.2	56.3	+
	0.04				No observation for metaphase							
Positive Control (B(a)P) −	0.008	200	0.5	−	0	0	0	0	0	0	0	−
+	0.008	200	0.5	−	4.0	4.5	28.0	0	0	30.0	32.5	+

Test chemical was precipitated in the all plates treated.