Allylbromide (アリルブロミド)

Chemical Name: Allylbromide
Synonym: 3-Bromo-1-propene
1-Propene, 3-bromo-
Molecular weight: 120.98
Melting point: -119℃
Boiling point: 71.3℃ (70-71℃)
Flashing point: -20℃

Chemical Structure

$$CH_2=CH-CH_2Br$$

CAS No : 106-95-6
MITI No : (2)-107, (9)-129
Source of Substance: Tokyo Kasei Kogyo Co., Ltd.
Lot.No. : FAV01
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
DMSO	24		200	0	−	0	0	0	0	0	0	0	−
	48		200	0	−	0	0	0	0	0	0.5	0.5	−
Test Chemical													
	24	0.01	200	0.5	−	0	0	0	0	0	0	0	−
		0.02	200	1.5	−	0.5	0	4.0	0	0	4.0	4.5	−
		0.03	200	2.0	−	2.5	3.0	15.0	0	0.5	17.0	18.0	+
		0.04				No observation for metaphase							
		0.05				No observation for metaphase							
	48	0.01	200	0.5	−	0	0	0.5	0	0	0.5	0.5	−
		0.02	200	1.0	−	0	0.5	0.5	0	0	0.5	0.5	−
		0.03	200	3.0	−	2.0	2.0	5.5	0	0.5	7.5	8.5	±
		0.04	200	2.5	−	2.0	2.5	8.0	0	0.5	11.0	11.5	+
		0.05				No observation for metaphase							
Positive Contr (MMC)	24	0.00005	200	0.5	−	2.0	9.5	42.0	0	0	45.5	46.0	+
	48	0.00005	200	1.0	−	3.5	10.5	59.5	0	0.5	63.5	64.0	+

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	0.5	−	0	0.5	1.0	0	0	1.5	1.5	−
	+		200	0	−	0	0	0.5	0	0	0.5	0.5	−
Test Chemical													
	−	0.02	200	0	−	0	0	1.0	0	0	1.0	1.0	−
		0.06	200	4.5	−	1.0	2.5	8.5	0	1.0	10.5	10.5	+
		0.10	142	2.1	−	1.4	9.9	18.3	0	0.7	26.8	27.5	+
		0.14	No observation for metaphase										
	+	0.02	200	2.0	−	0	0	1.0	0	0	1.0	1.0	−
		0.06	200	1.5	−	0.5	1.5	5.0	0	0	5.5	5.5	±
		0.10	200	3.0	−	0	1.0	3.5	0	0	4.5	4.5	−
		0.14	No observation for metaphase										
Positive Control													
(B(a)P)	−		200	0	−	0.5	0.5	0	0	0	0.5	1.0	−
	+		200	0	−	3.0	5.0	43.0	0	0	45.0	45.5	+