2-Bromopropionic acid (2-ブロモプロピオン酸)

Chemical Name: 2-Bromopropionic acid
Synonym Propanoic acid, 2-bromo-
Molecular weight: 153.0
Melting point: 26.3℃
Boiling point: 201-203℃
Flashing point: 100℃

Chemical Structure

$CH_3CHBrCOOH$

CAS No : 598-72-1
MITI No : (9)-1167
Source of Substance: Wako Pure Chemical Ind., Ltd.
Lot.No. : CTR5065
Purity: %
Vehicle: Saline

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
Saline	24		200	0	−	0.5	0	0	0	0	0.5	1.0	−
	48		200	0	−	0	0	0	0	0	0	0	−
Test Chemical													
	24	0.025	200	0	−	0	0	0.5	0	0	0	0	−
		0.050	200	1.0	−	0.5	0	0	0	0	0	0.5	−
		0.10	200	0.5	−	0	0	0	0	0	0	0	−
		0.20	200	1.0	−	1.5	0	3.5	0	0	4.5	6.0	±
		0.40	161	0	−	5.0	13.0	11.2	0	0	20.5	21.7	+
	48	0.025	200	0	−	0	0	0	0	0	0	0	−
		0.050	200	0	−	0	0	0	0	0	0	0	−
		0.10	200	0.5	−	0	0	2.0	0	0	2.5	2.5	−
		0.20	200	7.0	−	3.0	3.0	4.5	0	0	7.5	9.0	±
		0.40	no metaphase			No observation for metaphase							
Positive Control													
(MMC)	24	0.00005	200	1.0	−	1.5	7.0	39.0	0	0.5	43.0	44.5	+
	48	0.00005	200	1.0	−	1.5	4.0	54.5	0.5	0	55.5	55.5	+

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
Saline −		200	0.5	−	0	0	0	0	0	0	0	−
+		200	1.5	−	0.5	0.5	0	0	0	0.5	1.0	−
Test Chemical												
−	0.25	200	3.5	−	0	0.5	0.5	0	0.5	1.5	1.5	−
	0.50	200	2.0	−	0.5	0	0.5	0	0	0.5	1.0	−
	1.0	200	1.5	−	3.0	4.0	33.5	0	0	34.5	34.5	+
	1.5	200	0.5	−	9.0	22.0	86.5	0	1.0	89.5	89.5	+
	2.0	113	0	−	52.2	69.0	0	0	0	100.0	100.0	+
+	0.25	200	1.0	−	0	0.5	0.5	0	0.5	1.5	1.5	−
	0.50	200	4.0	−	0	0.5	1.5	0	0	2.0	2.0	−
	1.0	200	0.5	−	2.0	2.5	31.0	0	0	32.5	33.0	+
	1.5	200	0	−	13.0	26.5	81.0	0	0	85.0	86.0	+
	2.0				No observation for metaphase							
Positive Control												
(B(a)P)−		200	0	−	0	0	0.5	0	0	0.5	0.5	−
+		200	0	−	1.5	2.0	23.5	0	0	24.5	25.5	+