Epoxy resin intermediate (Reaction products of 4,4'-(1-methylethylidene) bisphenol and chloromethyloxirane) (ビスフェノールA型エポキシ樹脂中間体)

Experimental Data

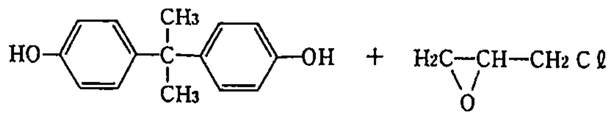
Chemical Name: Epoxy resin intermediate (Reaction products of 4,4'-(1-methylethylidene) bisphenol and chloromethyloxirane)

Molecular weight: number average 370(n=0:340)

Melting point: ℃

Boiling point: ℃

Chemical Structure



CAS No : (25068-38-6)

MITI No: (7)-1283

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
DMSO	24		200	0	−	0	0.5	0	0	0	0.5	0.5	−
	48		200	0	−	0.5	0	0.5	0	0	0.5	1.0	−
Test Chemical													
	24	0.01	200	0	−	0	0.5	0	0	0	0.5	0.5	−
		0.02	200	0.5	−	0	1.0	1.5	0	0	2.5	2.5	−
		0.04	200	0	−	2.0	10.0	68.5	0	0.5	70.0	70.5	+
		0.06				No observation for metaphase							
		0.08				No observation for metaphase							
	48	0.01	200	0.5	−	0	1.0	0	0	0	1.0	1.0	−
		0.02	200	0	−	0	0	1.0	0	0	1.0	1.0	−
		0.04	200	2.0	−	1.5	5.0	29.5	0	2.5	32.0	32.5	+
		0.06	175	0.6	−	0	8.6	41.7	0	0.6	44.0	44.0	+
		0.08				No observation for metaphase							
Positive Control													
(MMC)	24	0.00005	200	0	−	2.0	9.5	34.0	0	0	39.0	39.5	+
	48	0.00005	200	1.0	−	1.0	7.5	40.0	0	0.5	43.0	43.0	+

Experimental Data

	S 9 with or without	Concentration (mg/ml)	No. of Metaphase	Polyploid (%)	Judge	with Structural Chromosome Aberration (%) Gap	CTB	CTE	CSB	CSE	Total -G	Total +G	Judge
DMSO	−		200	0	−	0.5	0.5	0.5	0	0	1.0	1.5	−
	+		200	0	−	0	0	0.5	0	0	0.5	0.5	−
Test Chemical													
	−	0.16				No observation for metaphase							
		0.31				No observation for metaphase							
		0.63				No observation for metaphase							
		1.3				No observation for metaphase							
		2.5				No observation for metaphase							
	+	0.16	200	1.0	−	0	0.5	1.0	0	0	1.0	1.0	−
		0.31	200	0.5	−	0.5	0	1.0	0	0	1.0	1.5	−
		0.63	200	1.5	−	0.5	1.5	6.5	0	0	6.5	7.0	±
		1.3	200	1.0	−	1.5	2.0	3.0	0	0	4.0	5.0	±
		2.5	200	0	−	0	1.0	0.5	0	0	1.0	1.0	−
Positive Control (B(a)P)	−		200	1.0	−	1.0	0.5	0.5	0	0	0.5	1.5	−
	+		200	0	−	2.0	3.0	35.5	0	0	38.0	39.5	+

Test chemical was precipitated at the concentration of 1.3 and 2.5mg/ml.
Metaphase was not observed at the concentration of 5.0mg/ml.