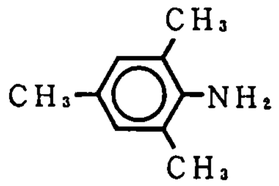
2,4,6-Trimethylaniline (2,4,6-トリメチルアニリン)

Chemical Name: 2,4,6-Trimethylaniline
Synonym 2,4,6-Trimethylbenzenamine
Mesidine
Molecular weight: 135.2
Melting point: -5℃
Boiling point: 232-233℃
Flashing point 96℃
Chemical Structure



CAS No: 88-05-1
MITI No: (3)-132
Source of Substance: Wako Pure Chem. Ind. Ltd.
Lot. No: LAQ5139
Purity: %
Vehicle: DMSO

Judgement for
Chromosomal Aberration in CHL: Positive

IARC Evaluation: G 3

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	−	0.5	0	0	0	0	0	0.5	−
	48		200	0.5	−	0	0	0.5	0	0	0.5	0.5	−
Test Chemical													
	24	0.1	200	0.5	−	0.5	0.5	0	0	0	0.5	1.0	−
		0.2	200	0.5	−	0.5	0.5	1.0	0	0	1.5	2.0	−
		0.4	200	1.0	−	1.5	0.5	0.5	0	0	1.0	2.5	−
		0.6				No observation for metaphase							
		0.8				No observation for metaphase							
	48	0.1	200	0	−	0.5	0	1.0	0	0	1.0	1.5	−
		0.2	200	1.0	−	0.5	0	0	0	0	0	0.5	−
		0.4	200	0	−	1.0	0	0.5	0	0	0.5	1.5	−
		0.6				No observation for metaphase							
		0.8				No observation for metaphase							
Positive Control													
(MMC)	24	0.00008	200	0	−	6.0	14.5	40.0	0	0	49.0	50.0	+
	48	0.00008	200	2.0	−	6.5	12.0	46.5	0	0	54.5	55.0	+

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	0	0	0	0	0	−
	+		200	0.5	−	1.0	0.5	0	0	0	0.5	1.5	−
Test Chemical													
	−	0.05	200	0	−	0.5	0	0	0	0	0	0.5	−
		0.10	200	0.5	−	1.0	0	0	0	0	0.5	1.5	−
		0.15	200	0.5	−	1.0	0	0	0	0	0	1.0	−
		0.20	200	0.5	−	0.5	0	0	0	0	1.5	2.0	−
		0.25	200	0	−	0	0	0	0	0	1.5	1.5	−
	+	0.05	200	1.0	−	1.5	0	0.5	0	0	0.5	2.0	−
		0.10	200	0.5	−	3.0	1.5	10.0	0	0	10.5	12.0	+
		0.15	200	0	−	5.0	7.5	38.0	0	0	39.0	40.5	+
		0.20	No observation for metaphase										
		0.25	No observation for metaphase										
Positive Control (B(a)P)													
	−	0.016	200	1.0	−	0.5	0	1.5	0	0	1.5	2.0	−
	+	0.016	200	0.5	−	4.5	10.0	45.5	0	0	50.0	50.5	+