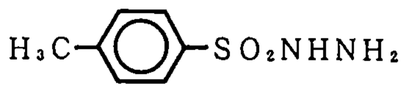
p-Toluenesulfonyl hydrazide (p-トルエンスルホニルヒドラジド)

Chemical Name: p-Toluenesulfonyl hydrazide
Synonym: p-Toluenesulfonylhydrazine
Benzenesulfonic acid, 4-methyl-, hydrazine
Molecular weight: 186.2
Melting point: 110 ℃
Boiling point: ℃

Chemical Structure



CAS No : 1576-35-8
MITI No : (3)-1910
Source of Substance: Tokyo Kasei Kogyo Co,. Ltd.
Lot.No. : A002
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	0.5	−	0	0	0	0	0	0	0	−
	48		200	0.5	−	0.5	0	0.5	0	0	0.5	1.0	−
Test Chemical													
	24	0.04	200	0.5	−	0.5	0	0.5	0	0	0.5	1.0	−
		0.06	200	0	−	0	0	1.5	0	0	1.5	1.5	−
		0.08	200	0	−	1.0	1.5	0	0	0	1.5	2.5	−
		0.10				No observation for metaphase							
		0.12				No observation for metaphase							
	48	0.04	200	0	−	0	0.5	0	0	0	0.5	0.5	−
		0.06	200	0	−	0.5	0.5	0.5	0	0	1.0	1.5	−
		0.08	200	0	−	2.0	2.0	1.0	0	0	3.0	5.0	±
		0.10	151	0	−	3.3	2.6	0.7	0	0	3.3	6.6	±
		0.12				No observation for metaphase							
Positive Control													
(MMC)	24	0.00008	200	0	−	2.5	10.5	41.5	0	0	45.5	46.0	+
	48	0.00008	200	0	−	3.5	10.5	28.5	0	0	33.5	34.5	+

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
DMSO	−		200	0.5	−	0	0	0	0	0	0	0	−
	+		200	2.0	−	0	0	0.5	0	0	0.5	0.5	−
Test Chemical													
	−	1.0	200	0	−	1.5	1.5	2.5	0	0	4.0	5.5	±
		2.0	141	0	−	2.1	2.1	2.1	0	0	4.3	6.4	±
		3.0				No observation for metaphase							
		4.0				No observation for metaphase							
		5.0				No observation for metaphase							
	+	1.0	200	1.0	−	1.5	1.0	0.5	0	0	1.5	2.5	−
		2.0	200	1.0	−	2.0	2.5	5.5	0	0	8.0	9.5	±
		3.0	200	0.5	−	5.0	8.5	5.5	0	0.5	14.0	16.5	+
		4.0	99	0	−	7.1	3.0	9.1	0	0	12.1	17.2	+
		5.0				No observation for metaphase							
Positive Control													
(B(a)P)	−		200	1.0	−	0	0	0	0	0	0	0	−
	+		200	0	−	1.5	4.5	20.5	0	0	23.0	24.5	+