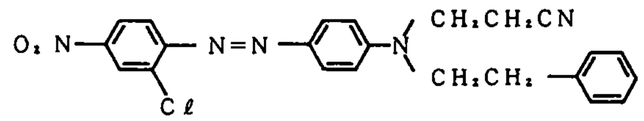
4-(2-Chloro-4-nitrophenylazo)-N-(2-cyanoethyl)-N-phenethylaniline
4-(2-クロロ-4-ニトロフェニルアゾ)-N-(2-シアノエチル)-N-フェネチルアニリン

Chemical Name: 4-(2-Chloro-4-nitrophenylazo)-N-(2-cyanoethyl)-N-phenethylaniline
Synonym
Molecular weight: 433.5
Melting point: 132 ℃
Boiling point: ℃

Chemical Structure



CAS No : ——

Source of Substance: Tokyo Kasei Kogyo Co., Ltd.
Lot.No.:
Purity:
Vehicle: 1% CMC

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
C M C	24		200	0	−	0	0	0.5	0	0	0.5	0.5	−
	48		200	0.5	−	0.5	0	0.5	0	0	0.5	1.0	−
Test Chemical													
	24	0.5	200	0.5	−	1.0	0	0	0	0	0	1.0	−
		1.0	200	0	−	1.0	0	0	0	0.5	0.5	1.5	−
		2.0	200	0.5	−	1.5	2.5	1.5	0	0	4.0	5.5	±
		3.0	156	0	−	3.8	4.3	0	0	0	5.2	8.5	±
		4.0				No observation for metaphase							
	48	0.5	200	0	−	1.5	0	0	0	0	0	1.5	−
		1.0	200	0	−	1.5	1.0	0	0	0	1.0	2.5	−
		2.0	200	0	−	4.5	3.0	2.0	0.5	0	5.5	9.5	±
		3.0	131	0	−	7.8	8.4	1.5	0	0	9.9	17.1	+
		4.0				No observation for metaphase							
Positive Control													
(MMC)	24	0.0001	200	0	−	3.5	5.5	24.0	0	0	29.0	31.0	+
	48	0.0001	200	0.5	−	3.0	8.0	41.5	0	1.0	48.5	50.0	+

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
CMC	−		200	0.5	−	0	0	0	0	0	0	0	−
	+		200	0.5	−	0	0	0	0	0	0	0	−
Test Chemical													
	−	1.0	200	0	−	0.5	0	0	0	0	0	0.5	−
		2.0	200	0.5	−	0.5	0	0	0	0	0	0.5	−
		4.0	200	1.0	−	3.0	3.0	13.5	0	0	14.5	16.0	+
		8.0				No observation for metaphase							
	+	1.0	200	0	−	1.0	0	0.5	0	0	0.5	1.5	−
		2.0	200	0.5	−	1.0	0	0	0	0	0	1.0	−
		4.0	200	0	−	2.5	0	1.5	0	0	1.5	3.5	−
		8.0	200	0.5	−	1.5	2.0	5.0	0	0	7.0	8.5	±
		16.0				No observation for metaphase							
Positive Control													
(B(a)P)	−	0.016	200	0.5	−	1.0	0.5	0	0	0	0.5	1.5	−
	+	0.016	200	0	−	3.0	5.5	43.0	0	0	45.0	46.0	+