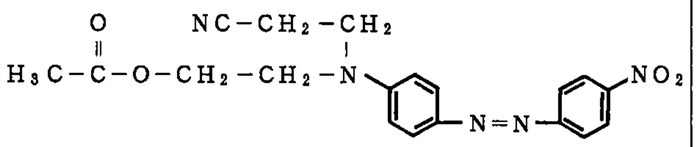
4-(4-Nitrophenylazo)-N-(2-cyanoethyl)-N-(2-acetoxyethyl)aniline
4-(4-ニトロフェニルアゾ)-N-(2-シアノエチル)-N-(2-アセトキシエチル)アニリン

Experimental Data

Chemical Name: 4-(4-Nitrophenylazo)-N-(2-cyanoethyl)-N-(2-acetoxyethyl)aniline
Synonym
Molecular weight:381.0
Melting point: 115 ℃
Boiling point: ℃

Chemical Structure



CAS No : 6657-36-9

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

	Treated time (Hr)	Concentration (mg/ml)	No. of Metaphase	Polyploid (%)		Cell with Structural Chromosome Aberration (%)							
											Total		
	Q				Judge	Gap	CTB	CTE	CSB	CSE	-G	+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	1.0	−	1.5	0.5	0	0	0	0.5	2.0	−
		1.0	200	0	−	1.5	1.5	0.5	0	0	1.0	3.5	−
		2.0	200	0	−	2.0	2.5	1.0	0	0	3.5	5.5	−
		3.0	189	0	−	4.3	2.1	2.1	0	0	4.2	8.0	±
		4.0				No observation for metaphase							
	48	0.5	200	0	−	0.5	0.5	0.5	0	0	1.5	2.0	−
		1.0	200	0	−	1.5	0.5	0.5	0	0	0.5	2.0	−
		2.0				No observation for metaphase							
		3.0				No observation for metaphase							
Positive Control													
(MMC)	24	0.0001	200	0	−	3.5	24.0	24.0	0	0	29.0	31.0	+
	48	0.0001	200	0.5	−	3.0	41.5	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 (%)							
											Total		
						Gap	CTB	CTE	CSB	CSE	-G	+G	Judge
C M C	−		200	0.5	−	0	0	0	0	0	0	0	−
	+		200	0	−	0	0	0	0	0	0	0	−
Test Chemical													
	−	2.0	200	2.0	−	0.5	0.5	0	0	0	0.5	1.0	−
		4.0	200	4.0	−	0	0.5	0	0	0	0.5	0.5	−
		8.0	200	0	−	4.0	3.5	9.0	0	0	11.5	14.0	+
		16.0	146	1.4		8.9	18.5	28.8			39.1	42.5	+
	+	2.0	200	1.0	−	1.0	0	0	0	0	0	1.0	−
		4.0	200	0	−	1.5	0.5	0	0	0	0.5	2.0	−
		8.0	200	0	−	0.5	0	1.0	0	0	1.0	1.5	−
		16.0	200	0.5	−	1.0	0.5	4.0	0	0	4.5	5.5	±
Positive Control													
(B(a)p)−		0.016	200	0	−	0.5	0.5	0	0	0	1.0	1.5	−
	+	0.016	200	0.5	−	3.0	6.5	39.5	0	0	42.0	43.0	+