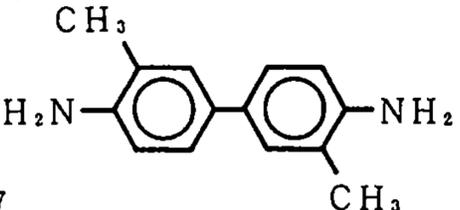


3,3'-Dimethyl-4,4'-diaminobiphenyl (3,3'-ジメチル-4,4'-ジアミノビフェニル)

Experimental Data

Chemical Name:	3,3'-Dimethyl-4,4'-diaminobiphenyl
Synonym	o-Tolidine
Molecular weight:	212.28
Melting point:	129-131°C
Boiling point:	°C
Chemical Structure	
CAS No :	119-93-7
MITI No :	(9)-882
Specified chemical substance:	G1
Source of Substance:	Wako Pure Chemical Ind., Ltd.
Lot.No. :	PDE0993
Purity:	%
Vehicle:	DMSO

Judgement for Chromosomal Aberration in CHL: Positive

IARC Evaluation : not yet cited

Treated Time (Hr)	Concentration (mg/ml)	No. of Meta-phase	Poly-ploid (%)	Judge	Cell with Structural Chromosome Aberration (%)								
					Gap	CTB	CTE	CSB	CSE	Total		Judge	
										-G	+G		
DMSO	24	200	1.0	-	0	0.5	0	0	0	0.5	0.5	-	
	48	200	1.0	-	0.5	0.5	0	0	0	0.5	1.0	-	
Test Chemical	24	0.013	200	1.5	-	1.0	0.5	1.0	0	0	1.5	2.5	-
		0.025	200	1.5	-	1.5	0	2.0	0	0	2.0	3.5	-
		0.05	200	0.5	-	3.0	4.0	5.0	0	0	8.0	9.0	±
		0.1	200	0	-	2.0	5.5	12.0	0	0	16.0	16.5	+
		0.2				No observation for metaphase							
	48	0.013	200	0	-	0	0.5	0.5	0	0	1.0	1.0	-
		0.025	200	2.5	-	1.0	1.0	2.5	0	0	3.5	4.5	-
		0.05	200	1.0	-	3.0	4.5	14.0	0	0	15.0	17.0	+
		0.1	200	0.5	-	5.0	12.0	43.0	0	0	49.0	49.5	+
		0.2				No observation for metaphase							
Positive Control (MMC)	24	0.00005	200	1.5	-	2.0	4.5	26.5	0	0	28.0	29.5	+
	48	0.00005	200	2.0	-	1.5	8.0	27.0	1.5	0	32.0	33.0	+

Experimental Data

S 9 with or without	Concent- ration (mg/ml)	No. of Meta- phase	Poly- ploid (%)	Judge	Cell with Structural Chromosome Aberration (%)								
					Gap	CTB	CTE	CSB	CSE	Total		Judge	
										-G	+G		
DMSO	-	200	2.0	-	0.5	0.5	0.5	0.5	0	1.5	2.0	-	
	+	200	1.5	-	1.0	0.5	0.5	0	0	1.0	2.0	-	
Test Chemical													
-	0.025	200	0	-	0	0	1.0	0	0	1.0	1.0	-	
	0.05	200	0	-	0	0	0.5	0	0	0	0.5	-	
	0.1	200	2.5	-	1.0	1.5	5.5	0	0	6.5	7.5	±	
	0.2	200	0	-	2.0	6.0	8.0	0	0	11.5	13.0	+	
	0.3				No observation for metaphase								
	+	0.025	200	0.5	-	0	0.5	1.0	0	0	1.5	1.5	-
		0.05	200	1.0	-	1.0	0.5	0	0	0	0.5	1.5	-
		0.1	200	0	-	0	1.5	1.5	0	0	2.5	2.5	-
		0.2	200	2.0	-	0.5	1.5	3.0	0.5	0	4.5	5.0	±
		0.3				No observation for metaphase							
Positive Control													
(B(a)P)	-	200	0.5	-	1.0	0	0	0	0	0	1.0	-	
	+	200	0.5	-	5.0	7.5	47.5	0	0	49.0	50.0	+	