

4,4'-Diaminodiphenyl ether (4,4'-ジアミノジフェニルエーテル)

Experimental Data

<b>Chemical Name:</b>	4,4'-Diaminodiphenyl ether
<b>Synonym</b>	Bis(4-aminophenyl)ether Benzenamine, 4,4'-oxybis-
<b>Molecular weight:</b>	200.24
<b>Melting point:</b>	190.9°C
<b>Boiling point:</b>	°C
<b>Chemical Structure</b>	
<b>CAS No :</b>	101-80-4
<b>MITI No :</b>	(3)-854
<b>Source of Substance:</b>	Tokyo Kasei Kogyo Co., Ltd.
<b>Lot. No. :</b>	AX01
<b>Purity:</b>	%
<b>Vehicle:</b>	DMSO

Judgement for Chromosomal Aberration in CHL: Positive

IARC Evaluation : G 2B

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	0	—	0	0	0	0	0	0	0	0	—
	48	200	0.5	—	0	0	0	0	0	0	0	0	—
<b>Test Chemical</b>													
	24	0.020	200	0	—	0.5	0	1.5	0	0	1.5	2.0	—
		0.078	200	0	—	0	1.0	9.0	0	0	10.0	10.0	+
		0.31	200	0	—	4.0	9.5	45.0	0.5	0	50.0	50.0	+
		1.3	200	0	—	2.0	9.0	45.5	0	0	48.5	49.0	+
		5.0	200	0	—	4.5	10.0	39.5	0	0	45.0	45.0	+
	48	0.020	200	0.5	—	0	0.5	2.0	0	0	2.5	2.5	—
		0.078	200	1.0	—	0.5	3.5	32.0	0	0	34.5	34.5	+
		0.31	200	2.0	—	1.5	4.0	58.5	0	0	59.0	59.0	+
		1.3	200	1.0	—	2.5	7.0	58.5	0	0	59.0	59.0	+
		5.0	200	2.5	—	1.5	6.0	51.5	0	0.5	53.5	53.5	+
<b>Positive Control</b>													
(MMC)	24	0.00005	200	0.5	—	3.5	6.0	39.0	0	0	42.5	43.5	+
	48	0.00005	200	0	—	2.0	10.0	54.5	0	0	59.0	59.0	+

Test chemical was precipitated at the concentration of 1.3 and 5.0mg/ml.

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	0.5	-	0	0.5	1.0	0	0	1.5	1.5	-	
	+	200	0	-	0	0	0.5	0	0	0.5	0.5	-	
Test Chemical													
-	0.062	200	0	-	0	0.5	0.5	0	0	1.0	1.0	-	
	0.19	200	0.5	-	0	0.5	1.0	0	0	1.0	1.0	-	
	0.56	200	0	-	1.5	7.5	53.0	0	0	55.5	55.5	+	
	1.7	200	0	-	0.5	10.5	38.5	0	0	42.0	42.0	+	
	5.0	200	0.5	-	1.0	6.5	30.0	0	0	33.0	33.5	+	
	+	0.062	200	0	-	0	0	0.5	0	0	0.5	0.5	-
		0.19	200	0.5	-	0	0	1.0	0	0	1.0	1.0	-
		0.56	200	0	-	1.5	5.5	32.5	0	0	35.5	35.5	+
		1.7	200	0	-	0.5	2.0	17.0	0	0	18.5	19.0	+
		5.0	200	0.5	-	0.5	1.5	7.5	0	0.5	8.5	9.0	±
Positive Control													
(B(a)P)	-	200	0	-	0.5	0.5	0	0	0	0.5	1.0	-	
	+	200	0	-	3.0	5.0	43.0	0	0	45.0	45.5	+	

Test chemical was precipitated at the concentration of 1.7 and 5.0mg/ml.