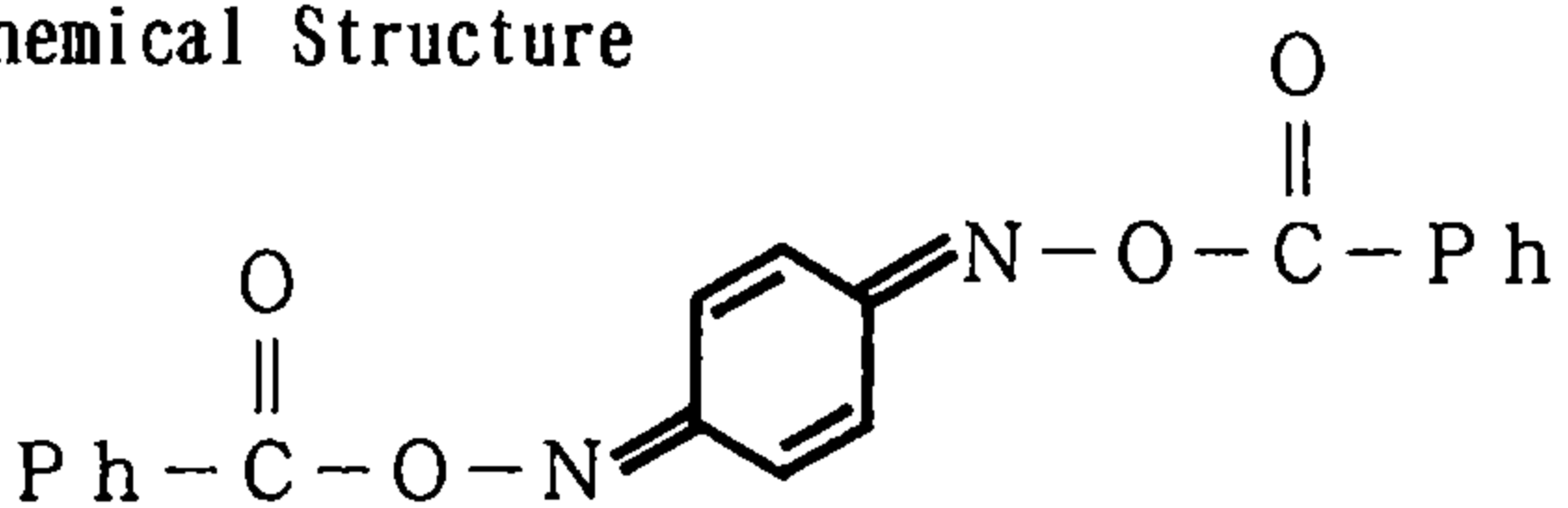


p, p'-Dibenzoylquinone dioxime (p, p'-ジベンゾイルキノンジオキシム)

Experimental Data

<u>Chemical Name:</u>	<u>p, p'-Dibenzoylquinone dioxime</u>
<u>Synonym</u>	<u>N, N'-Bis(benzoyloxy)-p-benzoquinonediimine</u> <u>2, 5-Cyclohexadiene-1, 4-dione, bis(O-benzoyloxime)</u>
<u>Molecular weight:</u>	<u>346.34</u>
<u>Melting point:</u>	<u>247°C</u>
<u>Boiling point:</u>	<u> °C</u>
<u>Chemical Structure</u>	
<u>CAS No :</u>	<u>120-52-5</u>
<u>MITI No :</u>	<u>(3)-1010, (3)-2966</u>
<u>Source of Substance:</u>	<u>Tokyo Kasei Kogyo Co., Ltd.</u>
<u>Lot.No. :</u>	<u>AW01</u>
<u>Purity:</u>	<u> %</u>
<u>Vehicle:</u>	<u>DMSO</u>

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	1.0	0	0	1.5	1.5	—	
	48	200	0.5	—	0	0.5	0.5	0	0	1.0	1.0	—	
Test Chemical													
24	1.0	200	1.0	—	0	0.5	0.5	0	0	1.0	1.0	—	
	2.0	200	0	—	0	0.5	1.0	0	0	1.5	1.5	—	
	3.0	200	0	—	1.5	0.5	1.5	0	0	2.0	3.5	—	
	4.0	200	2.5	—	1.5	4.0	10.0	0	0.5	12.5	12.5	+	
	5.0	200	1.0	—	2.0	5.5	9.0	0	0	14.0	14.0	+	
48	1.0	200	1.5	—	0	0	1.0	0	0	1.0	1.0	—	
	2.0	200	3.0	—	0.5	0.5	1.0	0	0	1.5	2.0	—	
	3.0	200	1.0	—	0	1.0	0.5	0	0	1.5	1.5	—	
	4.0	200	3.0	—	0.5	0.5	0.5	0	0	1.0	1.5	—	
	5.0	200	2.5	—	0.5	0	0.5	0	0	0.5	1.0	—	
Positive Control													
(MMC)	24	0.00005	200	0.5	—	2.0	7.5	37.5	0	0	41.0	42.0	+
	48	0.00005	200	1.0	—	3.0	9.0	49.5	0	0	52.0	52.0	+

Judgement for
Chromosomal Aberration in CHL: Positive

IARC Evaluation : not yet cited

Test chemical was precipitated in the all plates treated.

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	-	0.5	0.5	0.5	0	0	1.0	1.5	-	
	+	200	0	-	0	0.5	0.5	0	0	1.0	1.0	-	
Test Chemical													
	-	1.0	200	2.0	-	0.5	0	0.5	0	0.5	1.0	1.5	-
		2.0	200	0	-	0.5	0.5	1.5	0	0	2.0	2.5	-
		3.0	200	1.5	-	0.5	2.0	2.5	0	0	3.5	3.5	-
		4.0	200	2.0	-	2.0	2.0	6.5	0	0	7.5	9.0	±
		5.0	200	8.0	±	2.5	5.5	8.5	0	0	11.5	12.0	+
	+	1.0	200	0.5	-	0	0.5	0	0	0	0.5	0.5	-
		2.0	200	0.5	-	0.5	0	0	0	0	0	0.5	-
		3.0	200	0	-	0	0.5	1.0	0	0	1.5	1.5	-
		4.0	200	0.5	-	0	0	0	0	0	0	0	-
		5.0	200	1.0	-	0	0.5	0.5	0	0	1.0	1.0	-
Positive Control													
(B(a)P)	-		200	0	-	1.0	0	0.5	0	0	0.5	1.5	-
	+		200	0	-	5.5	7.5	51.5	0	0	53.5	55.5	+

Test chemical was precipitated in the all plates treated.