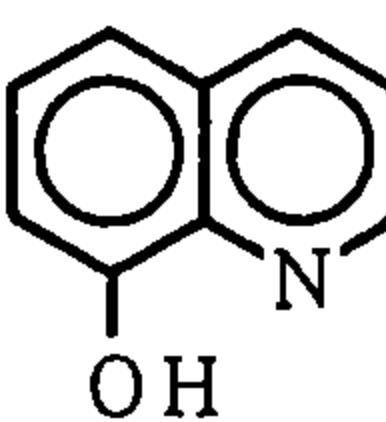


8-Hydroxyquinoline (8-ヒドロキシキノリン)

Experimental Data

Chemical Name:	8-Hydroxyquinoline	
Synonym	8-Quinolinol Oxine	
Molecular weight:	145.2	
Melting point:	72-76°C	
Boiling point:	267°C	
Chemical Structure		
CAS No:	148-24-3	
MITI No:	(5)-804	
Source of Substance:	Wako Pure Chem. Ind. Ltd.	
Lot. No:	LAM8893	
Purity:	%	
Vehicle:	DMSO	

	Treated Time (Hr)	Concen- ration (mg/ml)	No. of Meta- phase (%)	Poly- ploid (%)	Judge	Cell with Structural Chromosome Aberration (%)					Total		
						Gap	CTB	CTE	CSB	CSE	-G	+G	
DMSO	24		200	0	—	0.5	0	0	0	0	0	0.5	
	48		200	0.5	—	0	0	0	0	0	0.5	0.5	
Test Chemical													
	24	0.00025	200	0.5	—	1.0	0	0.5	0	0	0.5	1.5	
		0.0005	200	0	—	0.5	0	0.5	0	0	0.5	1.0	
		0.001	200	0.5	—	2.0	1.0	0.5	0	0	1.5	3.5	
		0.002	145	0	—	1.4	2.1	1.4	0	0	3.4	4.8	
		0.004				No observation for metaphase							
	48	0.00025	200	1.5	—	0	0	0.5	0	0	0.5	0.5	
		0.0005	200	0.5	—	0.5	0	0.5	0	0	0.5	1.0	
		0.001	200	0.5	—	0	0.5	0.5	0	0	1.0	1.0	
		0.002	200	2.5	—	1.5	1.0	2.0	0	0	2.5	3.0	
		0.004				No observation for metaphase							
Positive Control													
Judgement for	(MMC)	24	0.00008	200	0	—	6.0	14.5	40.0	0	0	49.0	50.0
Chromosomal Aberration in CHL: Positive		48	0.00008	200	2.0	—	6.0	12.0	46.5	0	0	54.5	55.0

IARC Evaluation: G 3

Experimental Data

S 9 with or without	Concen- ration (mg/ml)	No. of Meta- phase (%)	Poly- ploid	Judge	Cell with Structural Chromosome Aberration (%)						Total													
					Gap	CTB	CTE	CSB	CSE	-G	+G	Judge												
DMSO	—	200	0	—	1.5	0	0.5	0	0	0.5	2.0	—												
	+	200	0	—	0	0	0.5	0	0	0.5	0.5	—												
Test Chemical																								
—	0.004	200	0	—	0.5	0	1.0	0	0	1.0	1.5	—												
	0.008	200	0.5	—	0.5	0	5.0	0	0	5.0	5.5	±												
	0.012	200	0	—	2.0	1.0	6.5	0	0	7.5	9.0	±												
	0.016	200	0.5	—	2.5	3.5	6.5	0	0.5	10.5	12.0	+												
	0.020	200	0	—	4.5	4.0	3.5	0	0	7.5	12.0	+												
+	0.004	200	0	—	1.0	0	0	0	0	0	1.0	—												
	0.008	200	0.5	—	1.0	0.5	5.0	0	0	5.5	6.5	±												
	0.012	200	0.5	—	2.5	2.0	10.0	0	0	11.5	12.5	+												
	0.016	200	6.0	±	2.0	2.0	5.5	0	0	7.5	8.5	±												
	0.020	No observation for metaphase																						
Positive Control																								
(B(a)P)																								
—	0.016	200	0.5	—	0	0	0.5	0	0	0.5	0.5	—												
	+	0.016	200	0	—	5.0	8.0	39.5	0	0	43.0	43.5	+											