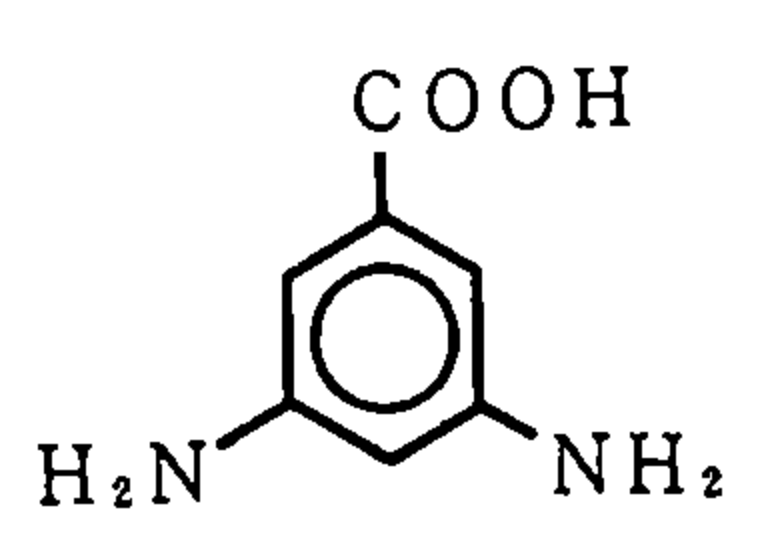


3,5-Diaminobenzoic acid (3,5-ジミノ安息香酸)

Chemical Name: 3,5-Diaminobenzoic acid
 Synonym: Benzoic acid, 3,4-diamino-
 Molecular weight: 152.2
 Melting point: 228°C
 Boiling point: °C

Chemical Structure



CAS No : 535-87-5
 MITI No : (3)-3789
 Source of Substance: Tokyo Kasei Kogyo Co., Ltd.
 Lot.No. : AR01
 Purity: %
 Vehicle: DMSO

Judgement for Chromosomal Aberration in CHL: Positive

IARC Evaluation : not yet cited

Experimental Data

	Tre-Rec Time (Hr)	Concentration (mg/ml)	No. of Metaphase	Poly-ploid (%)	Cell with Structural Chromosome Aberration (%)								
					Judge	Total			CSB	CSE	-G	+G	Judge
						Gap	CTB	CTE					
DMSO	24		200	0.5	—	1.0	0.5	0	0	0	0.5	1.5	—
	48		200	0	—	0	0.5	0.5	0	0	1.0	1.0	—
Test Chemical	24	1.0	200	0	—	1.0	0.5	0.5	0	0	1.0	2.0	—
		1.5	200	0	—	0.5	1.0	0	0	0	1.0	1.5	—
		2.0	200	0.5	—	0.5	0.5	0	0	0	0.5	1.0	—
		2.5	200	0	—	3.0	2.5	1.0	0	0	3.5	6.5	±
		3.0	200	0	—	7.0	12.0	4.5	0	0	16.5	21.5	+
	48	1.0	200	0	—	0	0	0	0	0	0	0	—
		1.5	200	0	—	1.0	0	0	0	1.0	1.0	2.0	—
		2.0	200	0	—	0	0.5	0	0	0	0.5	0.5	—
		2.5	200	0.5	—	2.5	2.0	1.5	0	0	3.5	5.5	±
		3.0	200	0	—	9.5	44.5	11.5	0	0	89.5	90.5	+
Positive Control (MMC)	24	0.00008	200	0	—	6.0	9.5	20.0	0	0	27.0	30.0	+
	48	0.00008	200	1.0	—	6.0	14.0	32.5	0	0.5	37.5	38.5	+

Metaphase was not observed at the concentration of 4.0mg/ml.

Experimental Data

S 9 with or without	Concent- ration (mg/ml)	No. of Meta- Phase	Poly- ploid (%)	Judge	Cell with Structural Chromosome Aberration (%)								Judge
					Gap	CTB	CTE	CSB	CSE	Total			
										-G	+G		
DMSO -		200	0.5	-	1.0	0	0	0	0	0	1.0	-	
+		200	0	-	0	0.5	0	0	0	0.5	0.5	-	
Test Chemical													
-	0.5	200	0	-	0	0	0	0	0	0	0	-	
	1.0	200	0.5	-	1.5	0.5	0	0	0	0.5	2.0	-	
	2.0	200	0.5	-	1.0	1.0	0	0	0	1.0	2.0	-	
	3.0	200	0.5	-	1.0	0	0	0	0	0	1.0	-	
	4.0				No observation for metaphase								
+	0.5	200	0.5	-	1.0	0.5	0	0	0	0.5	1.5	-	
	1.0	200	0	-	0.5	0	0	0	0	0	0.5	-	
	2.0	200	0	-	0.5	0	0	0	0	0	0.5	-	
	3.0				No observation for metaphase								
	4.0				No observation for metaphase								
Positive Control													
(B(a)P) -	0.008	200	1.0	-	1.5	1.0	0.5	0	0	1.0	2.5	-	
+	0.008	200	0.5	-	2.0	10.5	37.5	0	0.5	42.0	43.0	+	