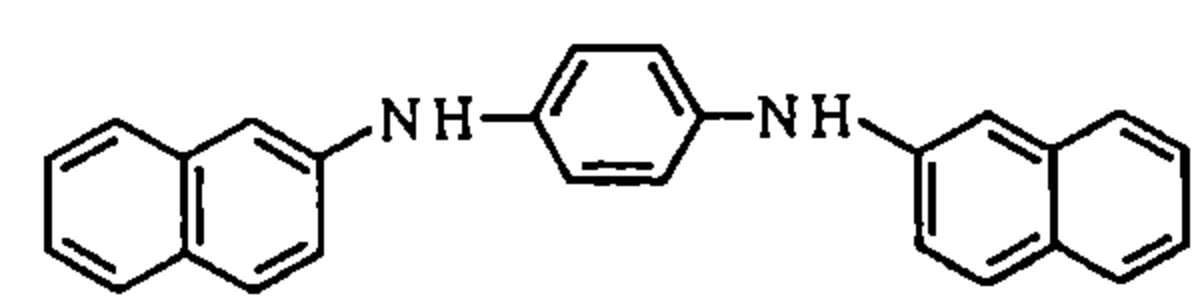


**N, N' -Di-2-naphthyl-p-phenylenediamine**  
(N, N' -ジ-2-ナフチル-p-フェニレンジアミン)

**Experimental Data**

**Chemical Name:** N, N' -Di-2-naphthyl-p-phenylenediamine  
**Synonym:** N, N' -Di-β-naphthyl-p-phenylenediamine (DNPD)  
 N, N' -Di-2-naphthalenyl-1, 4-benzenediamine  
**Molecular weight:** 360.46  
**Melting point:** 225°C  
**Boiling point:** °C  
**Chemical Structure**  
  
**CAS No:** 93-46-9  
**MITI No:** (4)-346  
**Source of Substance:** Tokyo Kasei Kogyo Co. Ltd  
**Lot. No. :** AG01  
**Purity:** extra pure grade  
**Vehicle:** DMSO

**Mutagenicity**  
 in Bacterial Test: Negative  
 IARC Evaluation: not yet cited

**Judgement**  
**Specific Mutagenicity**  
 Positive  
 Control

Con. μg/ plate	Number of Revertants/plate											
	Base-substitution						Frame-shift					
	TA100		TA1535		WP2uvrA		TA98		TA1537		TA1538	
	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
DMSO	(105)	(124)	(23)	(16)	(36)	(38)	(20)	(28)	(9)	(15)	(17)	(21)
	109	112	18	15	29	39	14	31	7	16	18	21
	123	123	19	18	30	35	16	25	6	10	10	22
20	(116)	(118)	(19)	(17)	(30)	(37)	(15)	(28)	(7)	(13)	(14)	(22)
	112	115	22	13	40	45	15	29	10	11	12	23
	116	104	30	19	44	47	16	35	9	12	10	23
50	(114)	(110)	(26)	(16)	(42)	(46)	(16)	(32)	(10)	(12)	(11)	(23)
	108	114	18	10	39	30	25	24	12	14	12	18
	103	104	15	12	50	49	16	28	6	11	14	23
100	(106)	(109)	(17)	(11)	(45)	(40)	(21)	(26)	(9)	(13)	(13)	(21)
	104	116	30	14	38	33	18	30	10	16	10	21
	104	120	24	20	44	41	16	38	8	11	10	16
200	(104)	(118)	(27)	(17)	(41)	(37)	(17)	(34)	(9)	(14)	(10)	(19)
	107	110	30	23	45	49	24	36	11	13	16	16
	122	119	23	19	50	54	25	37	11	16	10	25
500	(115)	(115)	(27)	(21)	(48)	(52)	(25)	(37)	(11)	(15)	(13)	(21)
	120	129	15	10	37	51	21	34	10	8	10	14
	105	118	19	16	31	33	23	45	11	11	12	15
1000	(113)	(124)	(17)	(13)	(34)	(42)	(22)	(39)	(11)	(10)	(11)	(15)
	124	115	20	12	33	53	18	26	8	13	9	20
	123	110	20	18	34	40	20	33	10	16	10	25
2000	(124)	(113)	(20)	(15)	(34)	(47)	(19)	(30)	(9)	(15)	(10)	(23)
	111	106	13	25	33	31	17	36	10	8	11	15
	105	130	18	20	31	21	17	32	10	10	12	23
5000	(108)	(118)	(16)	(23)	(32)	(26)	(17)	(34)	(10)	(9)	(12)	(19)
	AF2	2AA 0.5	NaN <sub>3</sub>	2AA	AF2	2AA	AF2	2AA	9AA	2AA	2NF	2AA
	(315)	(568)	(272)	(152)	(225)	(974)	(287)	(399)	(854)	(414)	(335)	(435)