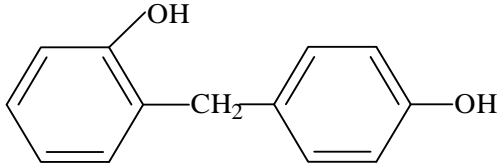


| | |
|-------------------------------|--|
| Chemical Name | : <u>2,4'-Dihydroxydiphenylmethane</u> |
| Synonym | : <u>o</u> -[(4-Hydroxyphenyl)methyl] <u>phenol</u> <u>Phenol, 2-[(4-hydroxyphenyl)</u> <u>methyl]-</u> |
| Molecular Weight | : 200.24 |
| Melting Point | : 118°C[Aldrich] |
| Boiling Point | : - |
| Flashing Point | : - |
| Molecular Formula | : C ₁₃ H ₁₂ O ₂ |
| Chemical Structure |  |
| CAS No. | : 2467-03-0 |
| MITI No. | : - |
| ML No. | : - |
| Specified Chemical Substances | : - |
| Source of Substance | : Tokyo Kasei Kogyo Co., Ltd. |
| Lot No. | : FBO01 |
| Purity | : >98% |
| Vehicle | : DMSO |

Mutagenicity in Bacterial Test ; Negative

IARC Evaluation ; not yet cited

| Conc. μ g/plate | Number of Revertants/plate | | | | | | | | | |
|-----------------------|----------------------------|-----------------------|-----------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | Base-substitution | | | | | | Frame-shift | | | |
| | TA100 | | TA1535 | | WP2uvrA/pKM101 | | TA98 | | TA1537 | |
| DMSO | S9- | S9+ | S9- | S9+ | S9- | S9+ | S9- | S9+ | S9- | S9+ |
| | | (170) | (166) | (10) | (14) | (42) | (78) | (19) | (26) | (7) |
| 1 .22 | 173 184 (179) | 211 202 (207) | 6 9 (8) | 8 10 (9) | 33 41 (37) | 57 75 (66) | 15 24 (20) | 33 21 (27) | 2 6 (4) | 5 5 (5) |
| 4 .88 | 180 195 (188) | 218 243 (231) | 14 10 (12) | 10 11 (11) | 38 41 (40) | 68 62 (65) | 13 23 (18) | 22 36 (29) | 3 6 (5) | 5 9 (7) |
| 19 .5 | 187 185 (186) | 255 260 (258) | 8 14 (11) | 13 16 (15) | 41 43 (42) | 76 52 (64) | 15 16 (16) | 30 37 (34) | 6 3 (5) | 6 10 (8) |
| 78 .1 | 146 179 (163) | 245 229 (237) | 5 2 (4) | 9 11 (10) | 52 48 (50) | 62 70 (66) | 18 16 (17) | 22 33 (28) | 6 5 (6) | 3 7 (5) |
| 313 | 120 117 (119) | 178 220 (199) | 11 15 (13) | 6 6 (6) | 20 30 (25) | 56 45 (51) | 10 13 (12) | 26 30 (28) | 2 5 (4) | 6 8 (7) |
| 1250 | 0 * 0 * (0 *) | 0 * 0 * (0 *) | 0 * 0 * (0 *) | 0 * 0 * (0 *) | 0 * 0 * (0 *) | 0 * 0 * (0 *) | 0 * 0 * (0 *) | 0 * 0 * (0 *) | 0 * 0 * (0 *) | 0 * 0 * (0 *) |
| 5000 | 0 * 0 * (0 *) | 0 * 0 * (0 *) | 0 * 0 * (0 *) | 0 * 0 * (0 *) | 0 * 0 * (0 *) | 0 * 0 * (0 *) | 0 * 0 * (0 *) | 0 * 0 * (0 *) | 0 * 0 * (0 *) | 0 * 0 * (0 *) |
| Judgement | - | - | - | - | - | - | - | - | - | - |
| Specific Mutagenicity | | | | | | | | | | |
| Positive Control | AF-2 (580) | 2-AA (1182) | NaN ₃ (436) | 2-AA (271) | AF-2 (741) | 2-AA (770) | AF-2 (505) | 2-AA (422) | 9-AA (522) | 2-AA (193) |

* Growth inhibition was observed.

Experimental Data-2

(B9811-2/2)

| Conc. μ g/plate | Number of Revertants/plate | | | | | | | | | |
|-----------------------|----------------------------|------------------|-----------------------------|-----------------|-----------------|------------------|-----------------|-----------------|-----------------|-----------------|
| | Base-substitution | | | | | | Frame-shift | | | |
| | TA100 | | TA1535 | | WP2uvrA/pKM101 | | TA98 | | TA1537 | |
| DMSO | S9- | S9+ | S9- | S9+ | S9- | S9+ | S9- | S9+ | S9- | S9+ |
| | (151) | (175) | (9) | (10) | (35) | (53) | (15) | (23) | (6) | (9) |
| 19 .5 | 171 | 188 | 10 | 15 | 24 | 41 | 6 | 36 | 2 | 6 |
| | 160 (166) | 195 (192) | 8 (9) | 9 (12) | 29 (27) | 59 (50) | 15 (11) | 25 (31) | 5 (4) | 7 (7) |
| 39 .1 | 142 | 249 | 8 | 8 | 38 | 54 | 9 | 16 | 3 | 6 |
| | 139 (141) | 242 (246) | 6 (7) | 14 (11) | 39 (39) | 71 (63) | 11 (10) | 24 (20) | 5 (4) | 7 (7) |
| 78 .1 | 146 | 239 | 11 | 8 | 33 | 64 | 18 | 21 | 3 | 9 |
| | 151 (149) | 219 (229) | 9 (10) | 6 (7) | 38 (36) | 62 (63) | 9 (14) | 26 (24) | 2 (3) | 9 (9) |
| 156 | 122 | 200 | 9 | 11 | 32 | 52 | 13 | 34 | 5 | 7 |
| | 139 (131) | 202 (201) | 9 (9) | 7 (9) | 30 (31) | 48 (50) | 15 (14) | 21 (28) | 6 (6) | 5 (6) |
| 313 | 104 | 188 | 7 | 10 | 37 | 37 | 15 | 14 | 3 | 9 |
| | 114 (109) | 186 (187) | 8 (8) | 8 (9) | 36 (37) | 49 (43) | 16 (16) | 18 (16) | 3 (3) | 7 (8) |
| 625 | 0 * | 0 * | 0 * | 0 * | 3 * | 17 * | 0 * | 0 * | 0 * | 0 * |
| | 0 * (0 *) | 0 * (0 *) | 0 * (0 *) | 0 * (0 *) | 3 * (3 *) | 22 * (20 *) | 0 * (0 *) | 0 * (0 *) | 0 * (0 *) | 0 * (0 *) |
| 1250 | 0 * | 0 * | 0 * | 0 * | 0 * | 0 * | 0 * | 0 * | 0 * | 0 * |
| | 0 * (0 *) | 0 * (0 *) | 0 * (0 *) | 0 * (0 *) | 0 * (0 *) | 0 * (0 *) | 0 * (0 *) | 0 * (0 *) | 0 * (0 *) | 0 * (0 *) |
| Judgement | - | - | - | - | - | - | - | - | - | - |
| Specific Mutagenicity | | | | | | | | | | |
| Positive Control | AF-2 (567) | 2-AA (1103) | NaN ₃ (388) | 2-AA (269) | AF-2 (654) | 2-AA (576) | AF-2 (499) | 2-AA (452) | 9-AA (425) | 2-AA (186) |