>>**Entry Name: Methylophiopogonone B**
Synonym(s): 5,7-Dihydroxy-3-[(4-methoxyphenyl)methyl]-6,8-dimethyl-4*H*-1-benzopyran-4-one, 9CI. 5,7-Dihydroxy-3-(4-methoxybenzyl)-6,8-dimethyl-4-chromenone

CAS Registry Number: 74805-89-3

As Methylophiopogonone A, KPR27-Y with
R = H, R' = OMe

Molecular Formula: $C_{19}H_{18}O_5$
Molecular Weight: 326.348
Accurate Mass: 326.115425
Percentage Composition: C 69.93%; H 5.56%; O 24.51%
Biological Source: Constit. of *Ophiopogon japonicus* and *Ophiopogon ohwii*
Physical Description: Pale yellow needles (EtOH)
Melting Point: Mp 219-220°

>>**Derivative:** 2,3-Dihydro
Synonym(s): Methylophiopogonanone B

CAS Registry Number: 74805-91-7

Molecular Formula: $C_{19}H_{20}O_5$
Molecular Weight: 328.364
Accurate Mass: 328.131075
Percentage Composition: C 69.50%; H 6.14%; O 24.36%
Biological Source: From *Ophiopogon japonicus*
Physical Description: Needles (CCl_4)
Melting Point: Mp 159-160°
Optical Rotation: $[\alpha]_D^{17}$ –53 (c, 1 in dioxan)

>>**Derivative:** 2,3-Dihydro, 1"-oxo
Synonym(s): 6-Formylisoophiopogonanone B

CAS Registry Number: 88700-30-5

Molecular Formula: $C_{19}H_{18}O_6$
Molecular Weight: 342.348
Accurate Mass: 342.11034
Percentage Composition: C 66.66%; H 5.30%; O 28.04%
Biological Source: From *Ophiopogon japonicus* and *Ophiopogon ohwii*
Physical Description: Needles ($MeOH/CHCl_3$)
Melting Point: Mp 141°
Optical Rotation: $[\alpha]_D^{21}$ –10.4 (c, 0.24 in $CHCl_3$)

>>**Derivative:** 2,3-Dihydro, 1"-oxo, 7-Me ether
Synonym(s): 7-*O*-Methyl-6-formylisoophiopogonanone B

CAS Registry Number: 88700-32-7

Molecular Formula: $C_{20}H_{20}O_6$
Molecular Weight: 356.374
Accurate Mass: 356.12599
Percentage Composition: C 67.41%; H 5.66%; O 26.94%
Biological Source: From *Ophiopogon japonicus*
Melting Point: Mp 93°
Optical Rotation: $[\alpha]_D$ –47.4 (c, 0.5 in $CHCl_3$)

References:

Tada, A. *et al.*, *Chem. Pharm. Bull.*, 1980, **28**, 1477
Kaneda, N. *et al.*, *Yakugaku Zasshi*, 1983, **103**, 1133, *(derivs)*
Watanabe, Y. *et al.*, *Chem. Pharm. Bull.*, 1985, **33**, 5358, *(deriv)*