



CAS Registry Number: 1157-39-7

Molecular Formula: C₁₇H₁₄O₄

Molecular Weight: 282.295

Accurate Mass: 282.08921

Percentage Composition: C 72.33%; H 5.00%; O 22.67%

Biological Source: Isol. from *Dalbergia violacea* and *Pterodon apparicioi* heartwoods

Physical Description: Cryst. (EtOH)

Melting Point: Mp 162-164° (154-156°)

>>**Derivative:** 4'-*O*-(3-Methyl-2-butenyl)

Synonym(s): 7-Hydroxy-4'-prenyloxyisoflavone. **Nordurlettone**

CAS Registry Number: 130289-25-7

Molecular Formula: C₂₀H₁₈O₄

Molecular Weight: 322.36

Accurate Mass: 322.12051

Percentage Composition: C 74.52%; H 5.63%; O 19.85%

Biological Source: Isol. from *Millettia ferruginea*

Physical Description: Yellow needles (CHCl₃/petrol)

Melting Point: Mp 173-174°

>>**Derivative:** 4'-*O*-(3,7-Dimethyl-2,6-octadienyl)(*E*-)

Synonym(s): 4'-Geranyloxy-7-hydroxyisoflavone. **Conrauinone D**

Molecular Formula: C₂₅H₂₆O₄

Molecular Weight: 390.478

Accurate Mass: 390.18311

Percentage Composition: C 76.90%; H 6.71%; O 16.39%

Biological Source: Constit. of the stem bark of *Millettia conraui*

Physical Description: Prisms

Melting Point: Mp 188-190°

UV: [neutral] λ_{max} 247 (log ε 4.21); 298 (sh) (log ε 4.25) (MeOH)

References:

- Farkas, L. *et al.*, *Chem. Ber.*, 1959, **92**, 819, (*synth*)
Ollis, W.D. *et al.*, *Tetrahedron*, 1967, **23**, 4741, (*Durlettone*)
Markham, K.R. *et al.*, *Phytochemistry*, 1968, **7**, 791, (*isol*)
Gupta, S.R. *et al.*, *Phytochemistry*, 1971, **10**, 877, (*synth*)
Dement, W.A., *Phytochemistry*, 1972, **11**, 1089, (*isol*)
Inone, T. *et al.*, *Chem. Pharm. Bull.*, 1974, **22**, 1422, (*biosynth*)
Jain, A.C. *et al.*, *Indian J. Chem.*, 1975, **13**, 789, (*Isoformononetin*)
Aoyagi, T. *et al.*, *J. Antibiot.*, 1975, **28**, 1006; 1979, **32**, 217, (*rhamnosides*)
Paris, R. *et al.*, *Planta Med.*, 1976, **29**, 32, (*4'-glucosides*)
Deshpande, V.H. *et al.*, *Indian J. Chem., Sect. B*, 1977, **15**, 201, (*isol*)
Nakayama, M. *et al.*, *Bull. Chem. Soc. Jpn.*, 1978, **51**, 2398, (*synth*)
Kurosawa, K. *et al.*, *Phytochemistry*, 1978, **17**, 1405, (*Isoformononetin*)
Ohta, N. *et al.*, *Agric. Biol. Chem.*, 1979, **43**, 1415, (*6''-O-Acetyldaidzin*)
Jha, H.C. *et al.*, *Can. J. Chem.*, 1980, **58**, 1211, (*cmr*)
Ayabe, S. *et al.*, *J.C.S. Perkin I*, 1982, 2725, (*biosynth, ms*)
Kobayashi, M. *et al.*, *Phytochemistry*, 1983, **22**, 1257, (*isol*)
Ingham, J.L., *Prog. Chem. Org. Nat. Prod.*, 1983, **43**, 1, (*rev, occur*)
Carman, R.M. *et al.*, *Aust. J. Chem.*, 1985, **38**, 485, (*isol*)
Breytenbach, J.C., *J. Nat. Prod.*, 1986, **49**, 1003, (*isol, deriv*)
Jain, A.C. *et al.*, *J.C.S. Perkin I*, 1986, 215, (*synth*)
Murthy, M.S.R. *et al.*, *Magn. Reson. Chem.*, 1986, **24**, 225, (*cmr*)
Matsuda, Y. *et al.*, *Agric. Biol. Chem.*, 1988, **52**, 3211, (*isol, props*)
Dagne, E. *et al.*, *Phytochemistry*, 1990, **29**, 2671, (*Nordurlettone*)
Park, H.H. *et al.*, *Chem. Pharm. Bull.*, 1992, **30**, 1978, (*6''-malonyl ester*)
Nishiyama, K. *et al.*, *Biosci., Biotechnol., Biochem.*, 1993, **57**, 107, (*synth*)
Zou, K. *et al.*, *J. Chin. Pharm. Sci.*, 1994, **3**, 90, (*Isooononin*)
Hirakura, K. *et al.*, *Phytochemistry*, 1997, **46**, 921-928, (*Daidzin, isol, pmr, cmr*)
Lewis, P. *et al.*, *J.C.S. Perkin I*, 1998, 2481-2484, (*Daidzin, synth, pmr, cmr*)
Fuendjiep, V. *et al.*, *Phytochemistry*, 1998, **47**, 113-115, (*Conrauinone D*)
Balasubramanian, S. *et al.*, *Synth. Commun.*, 2000, **30**, 469-484, (*synth, ethers*)