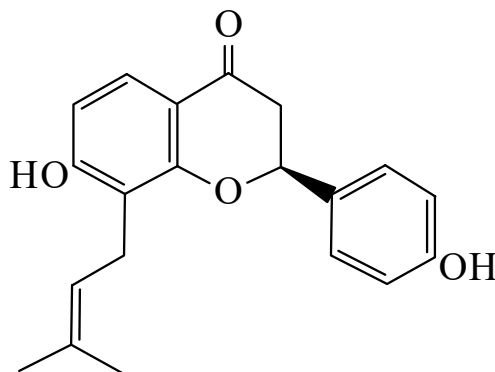




>>Entry Name: 4',7-Dihydroxy-8-prenylflavanone

Synonym(s): 2,3-Dihydro-7-hydroxy-2-(4-hydroxyphenyl)-8-(3-methyl-2-butenyl)-4*H*-1-benzopyran-4-one, 9Cl. **Isobavachin**



CAS Registry Number: 24672-86-4

Molecular Formula: C<sub>20</sub>H<sub>20</sub>O<sub>4</sub>

Molecular Weight: 324.376

Accurate Mass: 324.13616

Percentage Composition: C 74.06%; H 6.21%; O 19.73%

>>Variant: (S)-form

CAS Registry Number: 31524-62-6

Type of Compound Code(s): VK6320

Molecular Formula: C<sub>20</sub>H<sub>20</sub>O<sub>4</sub>

Molecular Weight: 324.376

Accurate Mass: 324.13616

Percentage Composition: C 74.06%; H 6.21%; O 19.73%

Biological Source: Constit. of the seeds of *Psoralea corylifolia* and of the aerial parts of *Sophora tomentosa*

Physical Description: Cryst. (MeOH)

Melting Point: Mp 200-202°

Optical Rotation:  $[\alpha]_{\text{D}}^{22} -46$  (c, 0.13 in EtOH)

>>Derivative: 7-Me ether

Synonym(s): 4'-Hydroxy-7-methoxy-8-prenylflavanone. **Munduleaflavanone A**

Type of Compound Code(s): VK6320

Molecular Formula: C<sub>21</sub>H<sub>22</sub>O<sub>4</sub>

Molecular Weight: 338.402

Accurate Mass: 338.15181

Percentage Composition: C 74.54%; H 6.55%; O 18.91%

Biological Source: Constit. of *Mundulea suberosa*

Melting Point: Mp 136-138°

Optical Rotation:  $[\alpha]_{\text{D}}^{25} -44.6$  (c, 0.2 in MeOH)

UV: [neutral]  $\lambda_{\text{max}}$  280 (); 329 () (MeOH)

>>Variant: (±)-form

CAS Registry Number: 129314-40-5

Type of Compound Code(s): VK6320

Molecular Formula: C<sub>20</sub>H<sub>20</sub>O<sub>4</sub>

Molecular Weight: 324.376

Accurate Mass: 324.13616

Percentage Composition: C 74.06%; H 6.21%; O 19.73%

Biological Source: Isol. from roots of *Glycyrrhiza pallidiflora*

Physical Description: Cryst. (Me<sub>2</sub>CO/hexane)

Melting Point: Mp 200-206°

#### References:

- Bhalla, V.K. *et al.*, *Tet. Lett.*, 1968, 2401, (*isol, struct*)  
Komatsu, M.L. *et al.*, *Chem. Pharm. Bull.*, 1978, **26**, 3863, (*isol, struct*)  
Shibata, S. *et al.*, *J. Indian Chem. Soc.*, 1978, **55**, 1184, (*isol*)  
Krishnamurti, M. *et al.*, *Indian J. Chem., Sect. B*, 1981, **20**, 247, (*synth*)  
Fukai, T. *et al.*, *Heterocycles*, 1990, **31**, 643-650, (*isol*)  
Rao, E.V. *et al.*, *Phytochemistry*, 1997, **46**, 1271-1274, (*Munduleaflavanone A*)