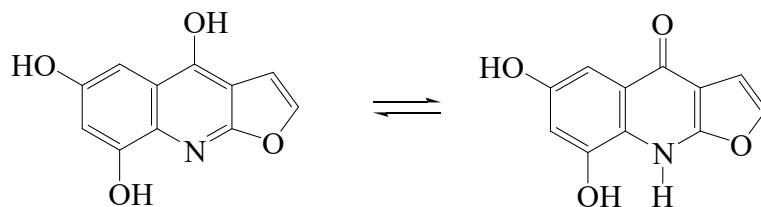




>>Entry Name: Furo[2,3-*b*]quinoline-4,6,8-triol

Synonym(s): 4,6,8-Trihydroxyfuro[2,3-*b*]quinoline. 6,8-Dihydroxyfuro[2,3-*b*]quinolin-4(9*H*)-one



Molecular Formula: C<sub>11</sub>H<sub>7</sub>NO<sub>4</sub>

Molecular Weight: 217.181

Accurate Mass: 217.037509

Percentage Composition: C 60.83%; H 3.25%; N 6.45%; O 29.47%

>>Variant: *OH*-form

Molecular Formula: C<sub>11</sub>H<sub>7</sub>NO<sub>4</sub>

Molecular Weight: 217.181

Accurate Mass: 217.037509

Percentage Composition: C 60.83%; H 3.25%; N 6.45%; O 29.47%

>>Derivative: Tri-Me ether

Synonym(s): 4,6,8-Trimethoxyfuro[2,3-*b*]quinoline, 9Cl. **Maculosidine**. 6,8-Dimethoxydictamnine

CAS Registry Number: 522-19-0

Molecular Formula: C<sub>14</sub>H<sub>13</sub>NO<sub>4</sub>

Molecular Weight: 259.261

Accurate Mass: 259.084459

Percentage Composition: C 64.86%; H 5.05%; N 5.40%; O 24.68%

Biological Source: Alkaloid from *Flindersia maculosa* and *Eriostemon* spp. (Flindersiaceae, Rutaceae)

Physical Description: Plates (EtOH)

Melting Point: Mp 186°

>>Variant: *NH*-form

Molecular Formula: C<sub>11</sub>H<sub>7</sub>NO<sub>4</sub>

Molecular Weight: 217.181

Accurate Mass: 217.037509

Percentage Composition: C 60.83%; H 3.25%; N 6.45%; O 29.47%

>>Derivative: 6,8-Di-Me ether, *N*-Me

Synonym(s): 6,8-Dimethoxy-9-methylfuro[2,3-*b*]quinolin-4(9*H*)-one, 9Cl. **Isomaculosidine**. 6,8-Dimethoxyisomaculosidine

CAS Registry Number: 518-96-7

Molecular Formula: C<sub>14</sub>H<sub>13</sub>NO<sub>4</sub>

Molecular Weight: 259.261

Accurate Mass: 259.084459

Percentage Composition: C 64.86%; H 5.05%; N 5.40%; O 24.68%

Biological Source: Alkaloid from the roots of *Dictamnus albus* and *Dictamnus caucasicus* (Rutaceae). Also obt. by heating Furo[2,3-*b*]quinoline-4,6,8-triol [GNK61-P](#) with MeI

Physical Description: Needles (EtOH, CHCl<sub>3</sub>/hexane or C<sub>6</sub>H<sub>6</sub>)

Melting Point: Mp 170-172° (167-168°)

#### References:

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Duffield, A.M. *et al.*, *Aust. J. Chem.*, 1962, **15**, 812; 1963, **16**, 123, (*isol*)  
Govindachari, T.R. *et al.*, *Indian J. Chem.*, 1963, **1**, 17, (*synth*)  
Clugston, D.M. *et al.*, *Can. J. Chem.*, 1965, **43**, 2516, (*ms*)  
Kikvidze, I.M. *et al.*, *Khim. Prir. Soedin.*, 1971, **7**, 675; *Chem. Nat. Compd. (Engl. Transl.)*, 1971, **7**, 659, (*Isomaculosidine, isol*)  
Sekiba, T., *Bull. Chem. Soc. Jpn.*, 1973, **46**, 577, (*synth, uv*)  
Storer, R. *et al.*, *Tetrahedron*, 1973, **29**, 1217, (*Isomaculosidine, isol, uv, pmr*)  
Lin, T.P. *et al.*, *J. Nat. Prod.*, 1987, **50**, 631, (*synth, uv, ir, pmr, cmr*)