



CAS Registry Number: 117048-59-6
Type of Compound Code(s): VG4000
Molecular Formula: C₁₈H₂₀O₅
Molecular Weight: 316.353
Accurate Mass: 316.131075
Percentage Composition: C 68.34%; H 6.37%; O 25.29%
Biological Source: Constit. of *Combretum caffrum*
Biological Use/Importance: Cytotoxic. Cell growth and tubulin inhibitor
Physical Description: Amorph.
Melting Point: Mp 103-104°
Solubility: BERDY SOL: Sol. MeOH, CHCl₃; poorly sol. H₂O

>>Derivative: 3',4'-Di-Me, 3",4"-methylene ether

Synonym(s): 3-Hydroxy-3',4'-dimethoxy-4,5-methylenedioxystilbene. **Combretastatin A₂**

CAS Registry Number: 111394-44-6
Type of Compound Code(s): VG4000
Molecular Formula: C₁₇H₁₆O₅
Molecular Weight: 300.31
Accurate Mass: 300.099775
Percentage Composition: C 67.99%; H 5.37%; O 26.64%
Biological Source: Constit. of *Combretum caffrum*
Physical Description: Oil
UV: [neutral] λ_{max} 223 (ε 17175); 303 (ε 7190) (MeOH) (Berdy)

>>Derivative: 1,2-Dihydro

see 1-(3,4-Dihydroxyphenyl)-2-(3,4,5-trihydroxyphenyl)ethane, [GMZ07-T](#)

References:

- Pettit, G.R. *et al.*, *Can. J. Chem.*, 1987, **65**, 2390
Nandy, P. *et al.*, *Pharm. Res.*, 1991, **8**, 776, (*pharmacol*)
Pettit, G.R. *et al.*, *J. Med. Chem.*, 1995, **38**, 1666
Fuerstner, A. *et al.*, *Annalen*, 1996, 2107, (*synth, ir, pmr, cmr*)
Orsini, F. *et al.*, *Carbohydr. Res.*, 1997, **301**, 95-109, (*synth, pmr, cmr, Combrestatin A₄*)
Lawrence, N.J. *et al.*, *Synthesis*, 1999, 1656-1660, (*Combretastatin A₄*)
Pettit, G.R. *et al.*, *Synthesis*, 1999, 1666-1672, (*Combretastatin A₄, Combretastatin A₅, Combretastatin A₆, isol, synth*)
Fuerstner, A. *et al.*, *Synthesis*, 1999, 2107-2113, (*Combretastatin A₄, Combretastatin A₅, synth*)
Pettit, G.R. *et al.*, *Synthesis*, 1999, 2390-2396, (*Combretastatin A₂, Combrestastain A₃, isol, synth*)
Gaukroger, K. *et al.*, *J.O.C.*, 2001, **66**, 8135-8138, (*Combretastatin A₄, synth*)