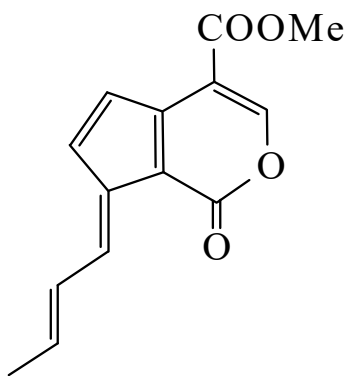




>>Entry Name: Fulvoplumierin

Synonym(s): Methyl 7-(2-butenylidene)-1,7-dihydro-1-oxocyclopenta[*c*]pyran-4-carboxylate, 9Cl, 8Cl. Methyl 7-crotonylidenecyclopenta[*c*]pyran-1(7*H*)-one-4-carboxylate



CAS Registry Number: 20867-01-0

Molecular Formula: C₁₄H₁₂O₄

Molecular Weight: 244.246

Accurate Mass: 244.07356

Percentage Composition: C 68.85%; H 4.95%; O 26.20%

Biological Source: Isol. from the rind of *Plumeria acutifolia* and *Plumeria rubra* var. *alba*

Use/Importance: Shows antibiotic and anti-HIV props.

Physical Description: Orange needles (CHCl₃/EtOH)

Melting Point: Mp 151-152 dec.°

Solubility: BERDY SOL: Sol. Me₂CO, Py, CHCl₃; fairly sol. MeOH, C₆H₆, Et₂O, EtOAc, EtOH, butanol; poorly sol. H₂O, hexane

Calculated Log P Data: Log P 2.05 (calc)

UV: [neutral] λ_{max} 272 (ε 7000); 365 (ε 33700) (MeOH) (Berdy) [neutral] λ_{max} 278 (ε 5130); 366 (ε 36300) (EtOH) (Berdy)

References:

Albers-Schönberg, G. *et al.*, *Helv. Chim. Acta*, 1962, **45**, 1406, (*struct, nmr*)

Büchi, G. *et al.*, *J.A.C.S.*, 1968, **90**, 5336; 1969, **91**, 6470, (*synth, ir, uv, ms, nmr, struct*)

Tan, G.T., *J. Nat. Prod.*, 1991, **54**, 143, (*anti-HIV activity*)