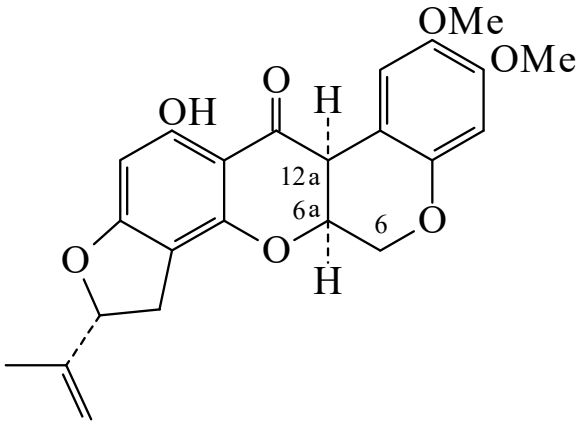
>>**Entry Name: Sumatrol**
ENTRY UNDER REVIEW
Synonym(s): 1,2,12,12*a*-Tetrahydro-5-hydroxy-8,9-dimethoxy-2-(1-methylethenyl)[1]benzopyrano[3,4-*b*]furo[2,3-*h*][1]benzopyran-6(12*H*)-one



CAS Registry Number: 82-10-0

Molecular Formula: $C_{23}H_{22}O_7$
Molecular Weight: 410.423
Accurate Mass: 410.136555
Percentage Composition: C 67.31%; H 5.40%; O 27.29%
Biological Source: Isol. from *Crotalaria burhia, Derris malaccensis, Millettia auriculata, Piscidia erythrina* and *Tephrosia toxicaria*
Physical Description: Needles (EtOH or Me_2CO)
Melting Point: Mp 183°. Mp 195-196° (dimorph.)
Optical Rotation: $[\alpha]_D$ –184 (c, 1.335 in C_6H_6)
Solubility: Spar. sol. dil. NaOH

>>**Derivative:** Ac

Melting Point: Mp 218-219°
Optical Rotation: $[\alpha]_D$ +57 (C_6H_6). $[\alpha]_D$ –20.5 (Me_2CO)

>>**Derivative:** Oxime

Physical Description: Needles (EtOH aq.)
Melting Point: Mp 245-247°

>>**Derivative:** 6α-Hydroxy
Synonym(s): Villosin. 6-Hydroxysumatrol

CAS Registry Number: 65160-15-8

Molecular Formula: $C_{23}H_{22}O_8$
Molecular Weight: 426.422
Accurate Mass: 426.13147
Percentage Composition: C 64.78%; H 5.20%; O 30.02%
Biological Source: Constit. of the pods of *Tephrosia villosa*
Melting Point: Mp 133°

>>**Derivative:** 6*a*,12*a*-Didehydro
Synonym(s): Villosol‡

CAS Registry Number: 60077-62-5

Molecular Formula: $C_{23}H_{20}O_7$
Molecular Weight: 408.407
Accurate Mass: 408.120905
Percentage Composition: C 67.64%; H 4.94%; O 27.42%
Biological Source: Constit. of the pods of *Tephrosia villosa*
Physical Description: Greenish-yellow needles ($CHCl_3$/MeOH)
Melting Point: Mp 197°
Optical Rotation: $[\alpha]_D^{26}$–80.9 (c, 0.495 in $CHCl_3$)