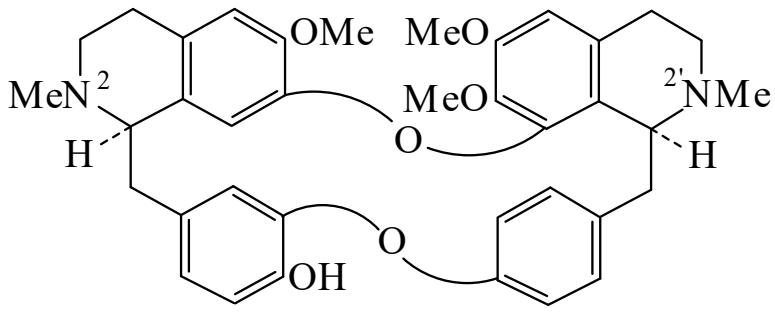
>>**Entry Name: Oxyacanthine**
Synonym(s): 6,6',7-Trimethoxy-2,2'-dimethyloxyacanthan-12'-ol, 9CI



CAS Registry Number: 548-40-3

Molecular Formula: $C_{37}H_{40}N_2O_6$
Molecular Weight: 608.733
Accurate Mass: 608.288638
Percentage Composition: C 73.01%; H 6.62%; N 4.60%; O 15.77%
Biological Source: Alkaloid from a wide variety of *Berberis* and *Mahonia* spp., including *Berberis aquifolium, Berberis floribunda, Berberis integerrima, Berberis julianae, Berberis lambertii, Berberis oblonga, Berberis orthobotrys, Berberis thunbergii, Berberis tschonoskyana, Berberis vulgaris, Mahonia acanthifolia, Mahonia borealis, Mahonia fortunei, Mahonia griffithi, Mahonia leschenaultii, Mahonia manipurensis, Mahonia repens, Mahonia sikkimensis* and *Mahonia simonsii*; also occurs in *Albertisia papuana, Cocculus leaebe, Magnolia compressa, Thalictrum lucidum* and *Xanthorhiza simplicissima* (Berberidaceae, Menispermaceae, Magnoliaceae, Ranunculaceae)
Use/Importance: Shows antibacterial and antitubercular activity, and *in vitro* antineoplastic activity against HeLa-S_3 cells. Symphatholytic agent, adrenaline antagonist, vasodilator
Physical Description: Cryst. (petrol)
Melting Point: Mp 212-214°
Optical Rotation: $[\alpha]_D^{29}$+285.6 (c, 0.5 in $CHCl_3$)
Calculated Log P Data: Log P 7.72 (uncertain value) (calc)
UV: [neutral] λ_{max} 223 (); 283 () (MeOH) (Berdy)
Other Data: Epimer of Repandine CHH48-T
Hazard & Toxicity: BERDY HAZD : LD_{50} (mus, ipr) 50 mg/kg

>>**Derivative:** *N*^{2}-De-Me
Synonym(s): Sepeerine. Ocoteamine. 7'-*O*-Methyldaphnoline

CAS Registry Number: 6787-93-5

Molecular Formula: $C_{36}H_{38}N_2O_6$
Molecular Weight: 594.706
Accurate Mass: 594.272988
Percentage Composition: C 72.71%; H 6.44%; N 4.71%; O 16.14%
Biological Source: Alkaloid from the bark of *Ocotea rodiaei* (Lauraceae)
Physical Description: Platelets (MeOH)
Melting Point: Mp 221.5-222.5°
Optical Rotation: $[\alpha]_D^{25}$+392 (c, 0.29 in $CHCl_3$)

>>**Derivative:** *N*^{2}-De-Me; hydrochloride (1:2)

Physical Description: Cryst. + $1H_2O$
Melting Point: Mp 290°
Optical Rotation: $[\alpha]_D$ +250 (c, 1.0 in H_2O)

>>**Derivative:** *N*^{2}-De-Me, Me ether; hydrochloride (1:2)

Physical Description: Cryst. + $1H_2O$ (dil. HCl)
Optical Rotation: $[\alpha]_D^{25}$+263 (c, 1.0 in H_2O)