

Supplementary Material

The African Plants of the *Strychnos* Genus: A Review of their Traditional Uses and Pharmacological Properties

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Keywords

Loganiaceae, *Strychnos*, Africa, Traditional uses, Pharmacological properties.

Conflict of interest

The authors declare no conflict of interest.

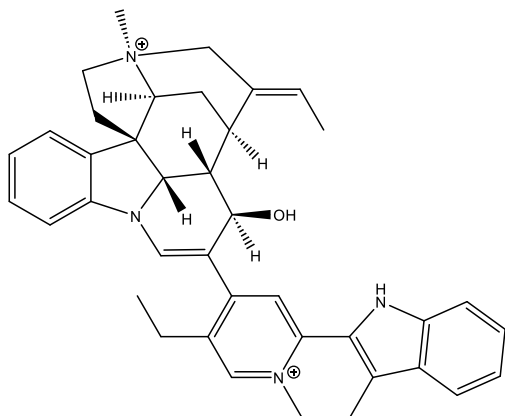
Correspondence

Olivier Bonnet, University of Liège, B36, 4000 Liège, Belgium.

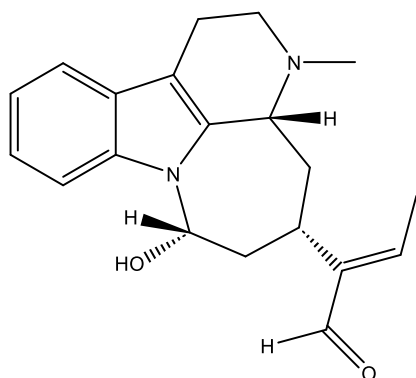
E-mail: Olivier.Bonnet@uliege.be.

List of metabolite structures described in the review and their subclass

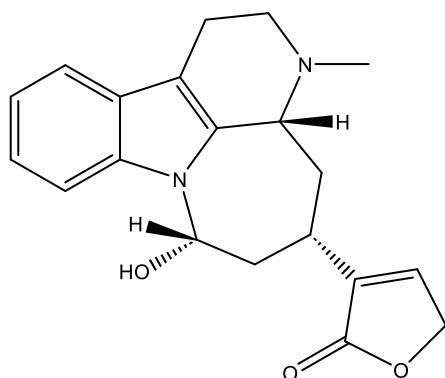
Afrocurarine (Indoloquinolizine-type)



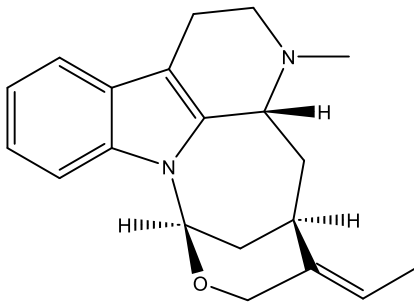
Akagerine (β -carboline-type)



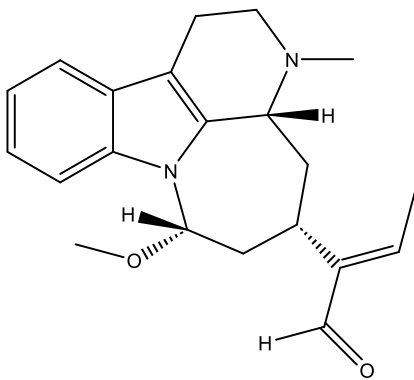
Akagerine lactone (β -carboline-type)



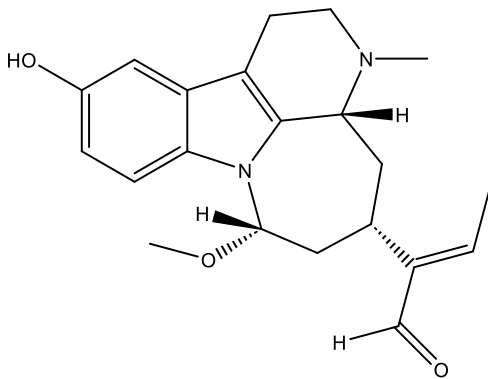
Dihydrocycloakagerine (β -carboline-type)



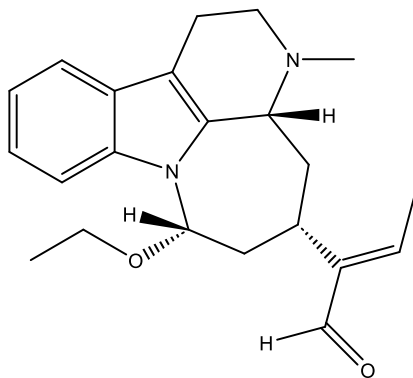
17-O-Methylakagerine (β -carboline-type)



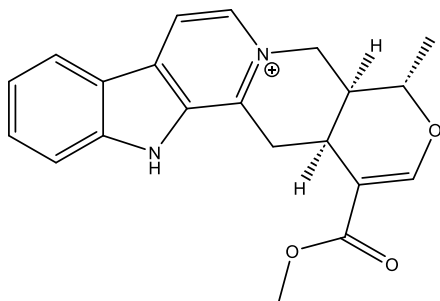
10-Hydroxy-17-O-methylakagerine (β -carboline-type)



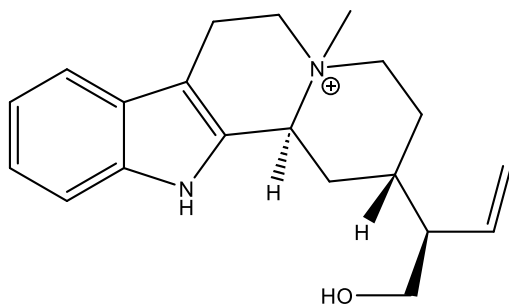
17-O-Ethylakagerine (β -carboline-type)



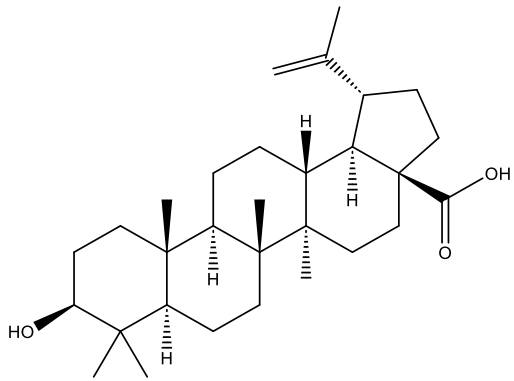
Alstonine (Ajmalicine-type)



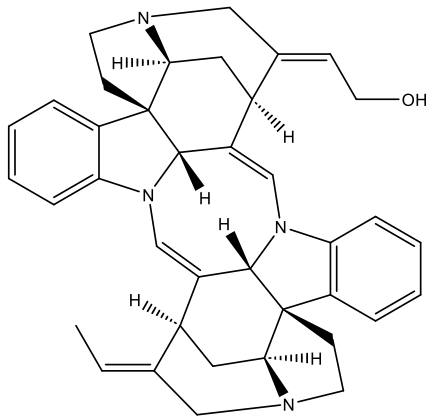
N₄-Methylantirrhine (Indoloquinolizine-type)



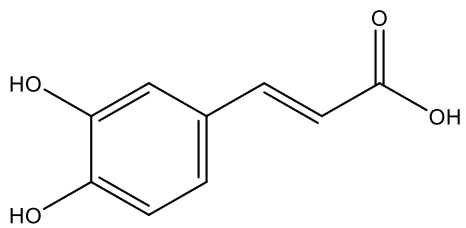
Betulinic acid (Non-alkaloid)



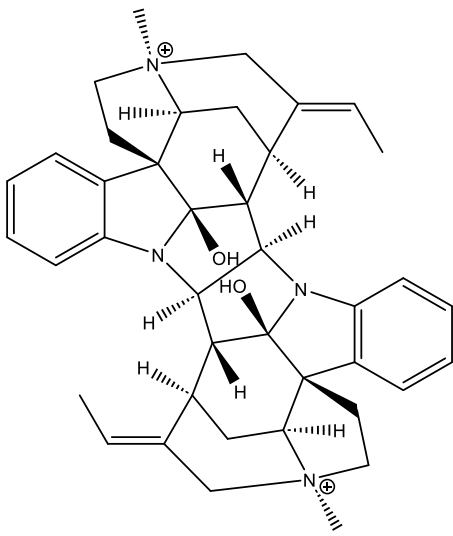
Bisnor-C-alkaloid H (Toxiferine-type)



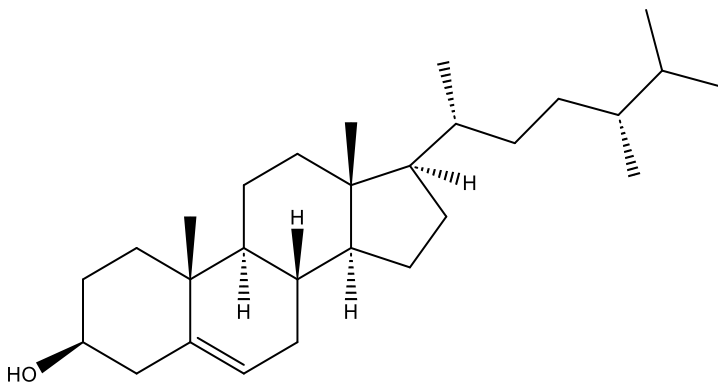
Caffeic acid (Non-alkaloid)



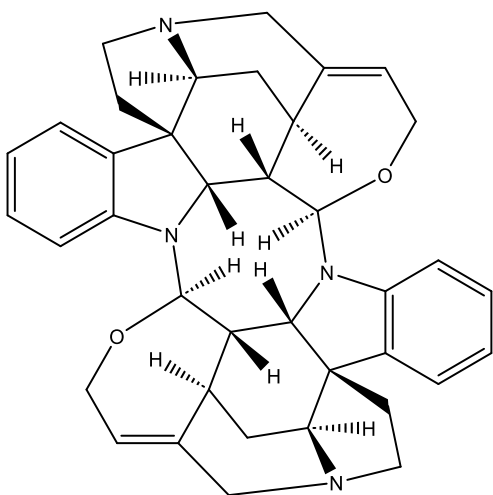
C-calebassine (Toxiferine-type)



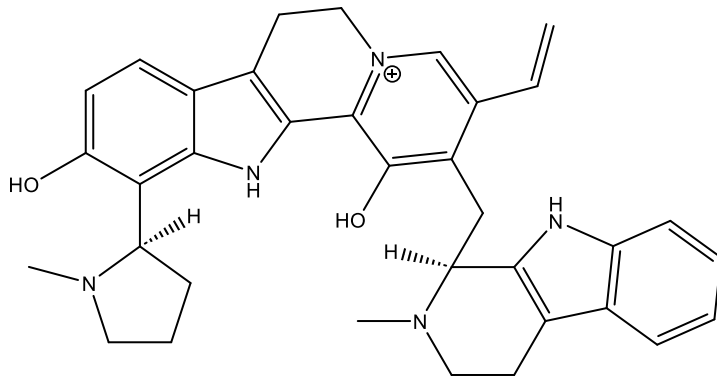
Campesterol (Campest-5-en-3 β -ol) (Non-alkaloid)



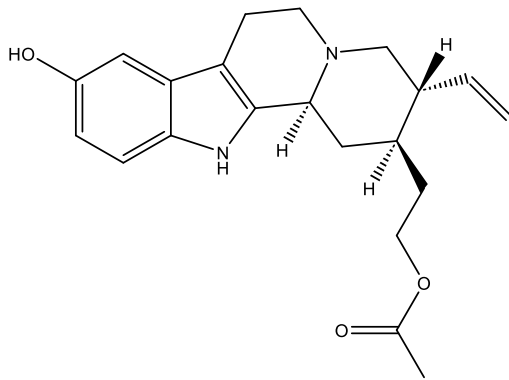
Caracurine V (Toxiferine-type)



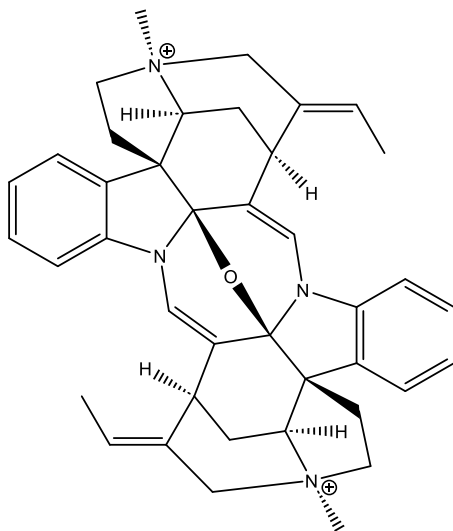
Chrysopentamine (Usambarensine-type)



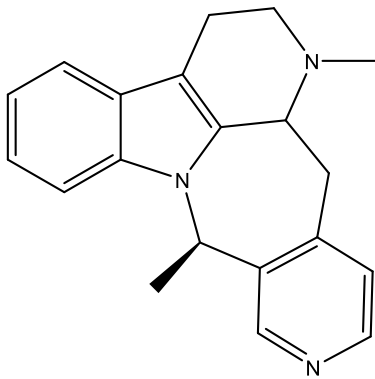
17-O-acetyl-10-hydroxycorynantheol (Indoloquinolizine-type)



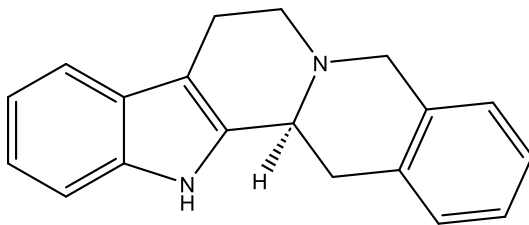
C-curarine (Toxiferine-type)



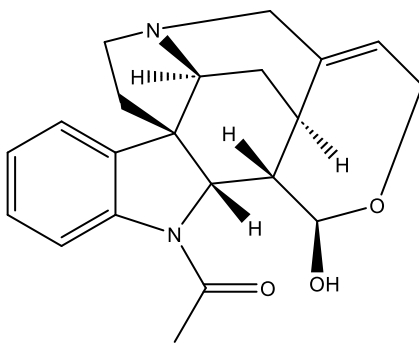
Decussine (β -carboline-type)



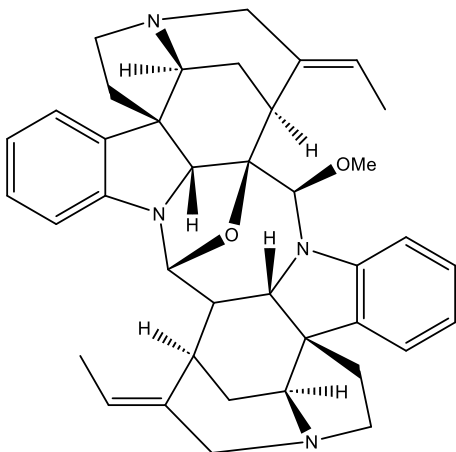
Demethoxycarbonyl-3,14-dihydrogambirtannine = Descarbomethoxydihydrogambirtannine
(Ajmalicine-type)



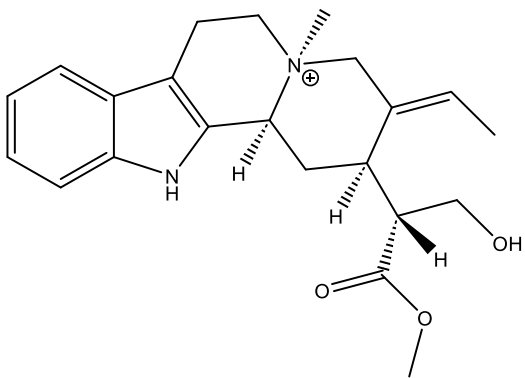
Diaboline (Diaboline-type)



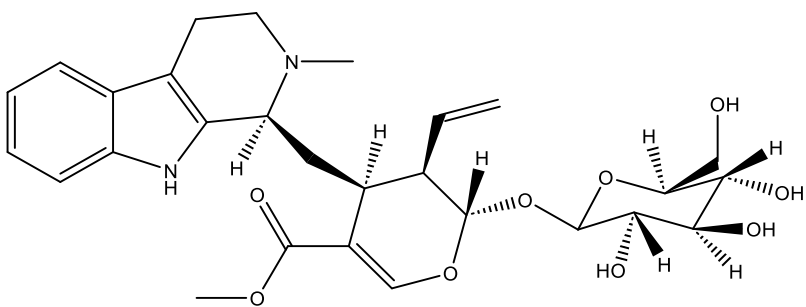
Divarine (Toxiferine-type)



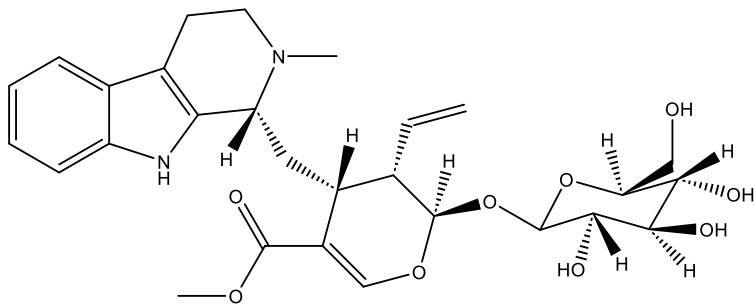
Diploceline (Indoloquinolizine-type)



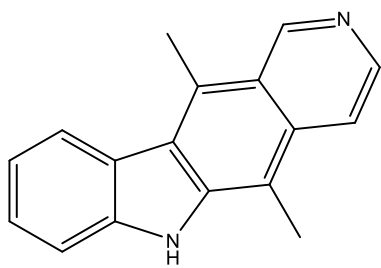
Dolichantoside (β -carboline-type)



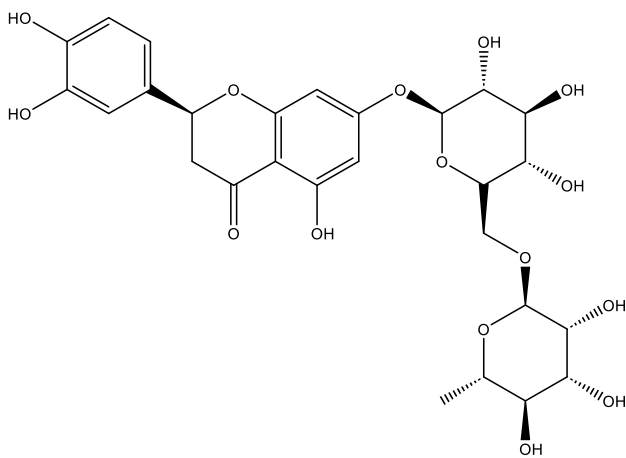
Isodolichantoside (β -carboline-type)



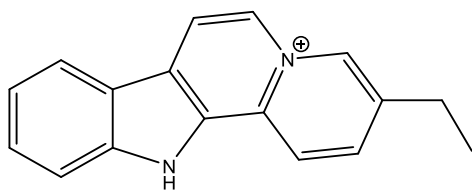
Ellipticine (β -carboline-type)



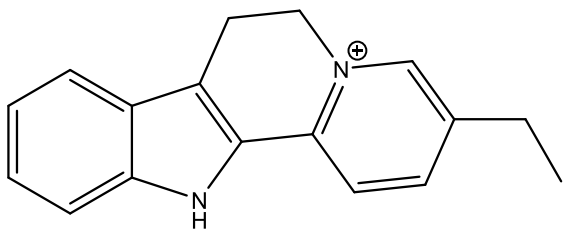
Eriocitrine (Non-alkaloid)



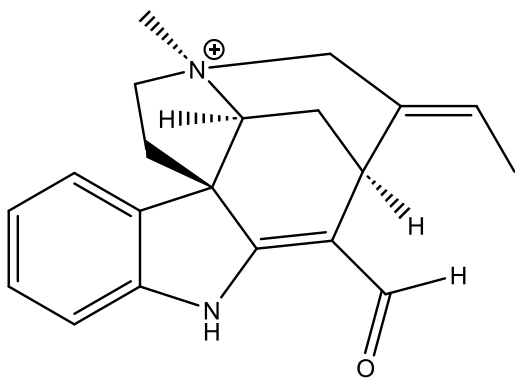
Flavopereirine (Indoloquinolizine-type)



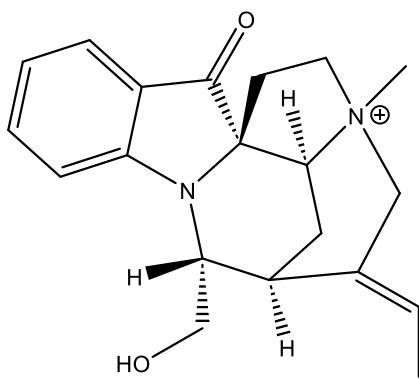
5,6-Dihydroflavopereirine (Indoloquinolizine-type)



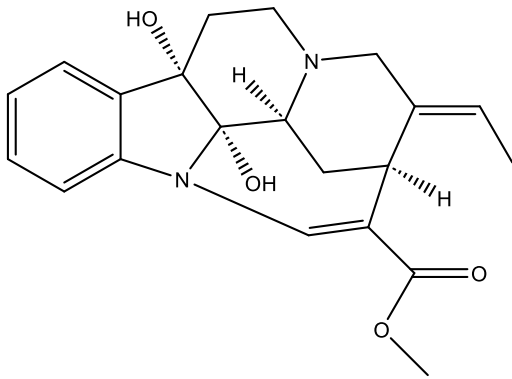
Fluorocurarine (Toxiferine-type)



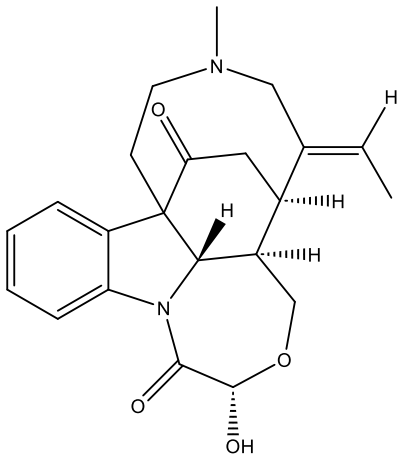
Fluorocurine (Toxiferine-type)



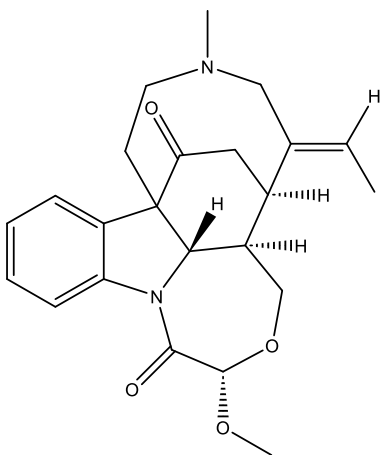
2,7-Dihydroxyapogeissoschizine (Indoloquinolizine-type)



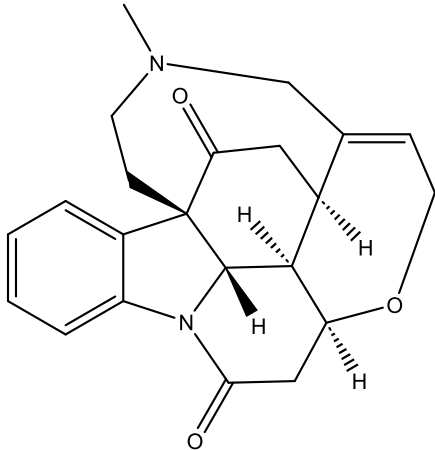
Holstiine (Tsilanine-type)



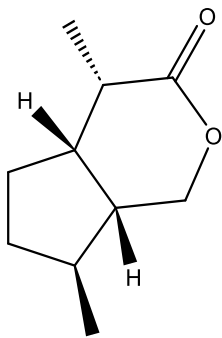
Holstiline (Tsilanine-type)



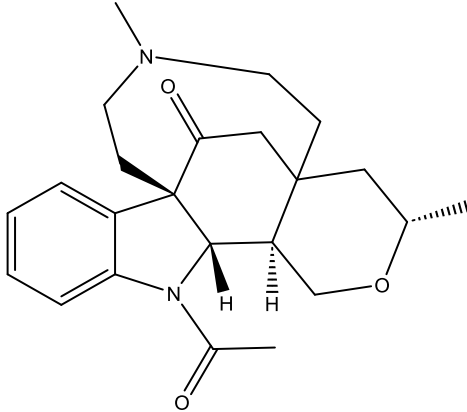
Icajine (Strychnine-type)



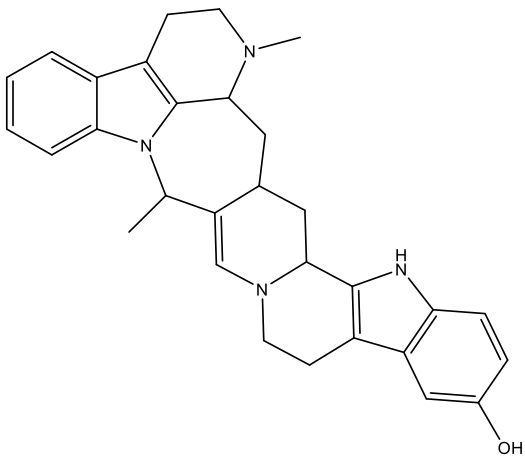
Iridoid (Non-alkaloid)



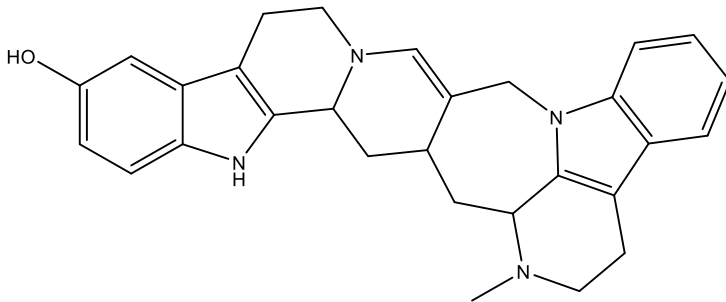
Isosplendine (Spermostrychnine-type)



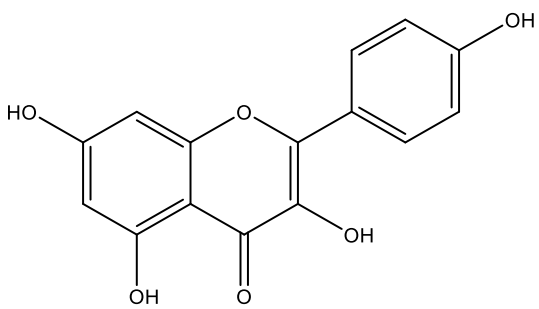
Janussine A (Usambarensine-type)



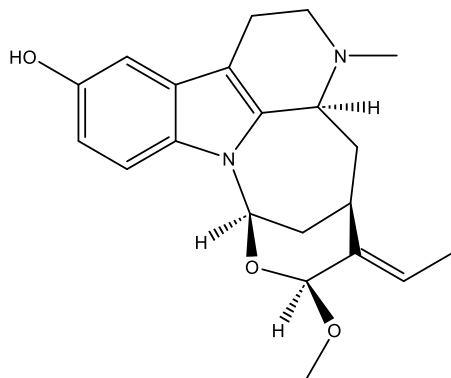
Janussine B (Usambarensine-type)



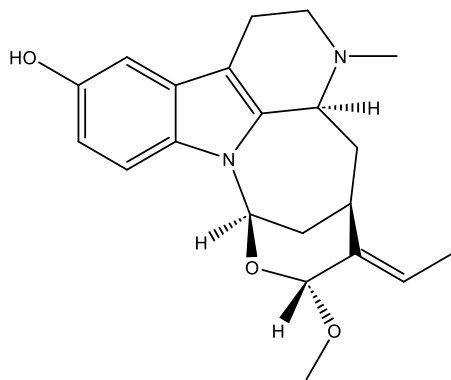
Kaempferol (Non-alkaloid)



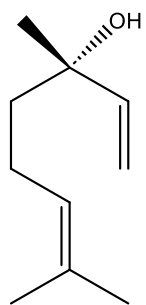
10-Hydroxy-21-O-methylkribine (β -carboline-type)



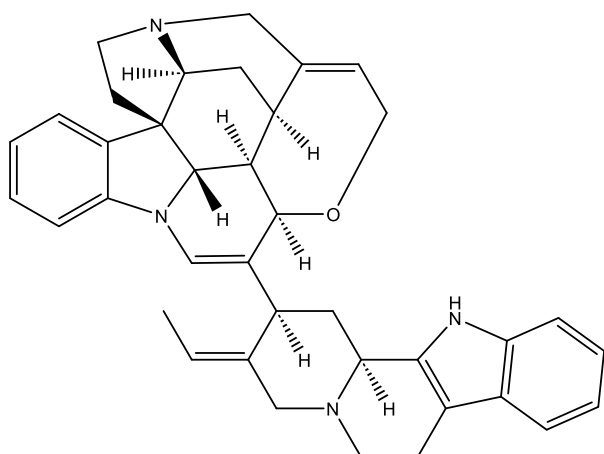
10-Hydroxy-epi-21-O-methylkribine (β -carboline-type)



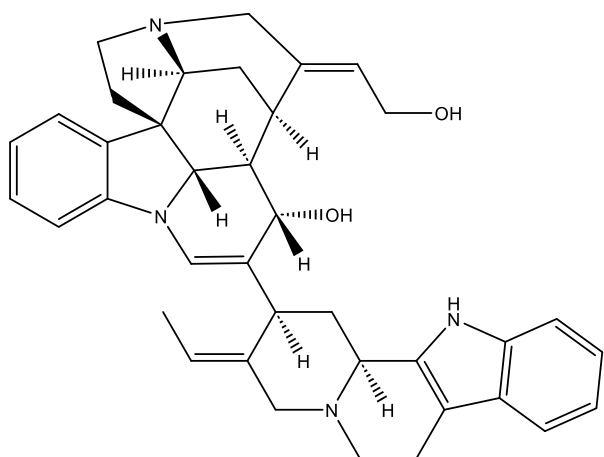
Linalool (Non-alkaloid)



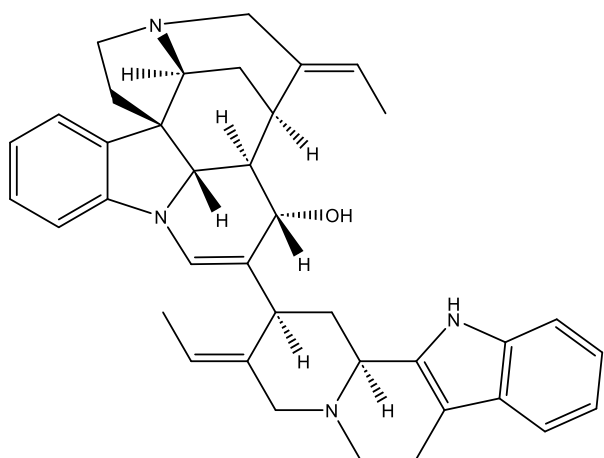
Longicaudatine (Indoloquinolizine-type)



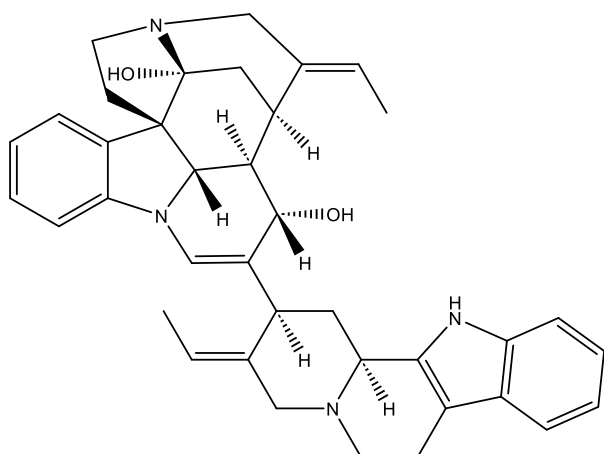
Longicaudatine F (Indoloquinolizine-type)



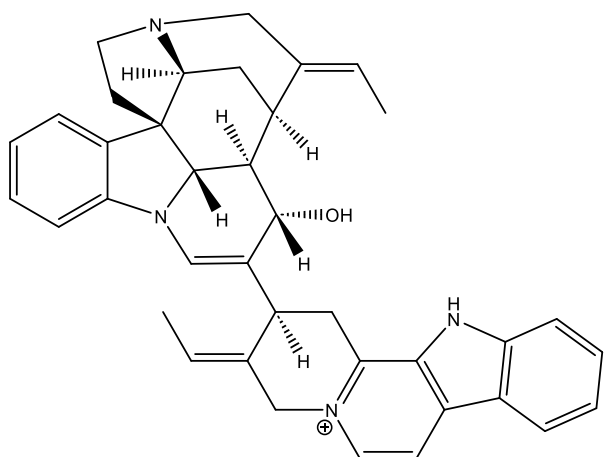
Longicaudatine Y (Indoloquinolizine-type)



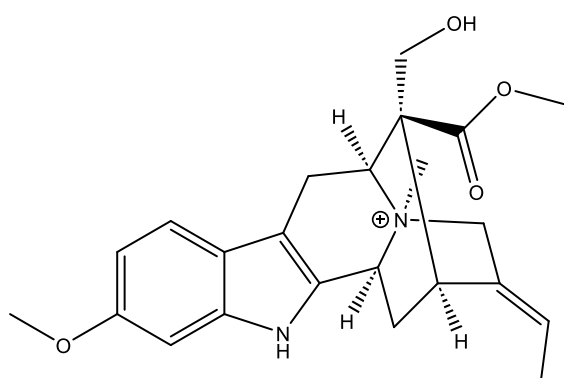
3-Hydroxylongicaudatine Y (Indoloquinolizine-type)



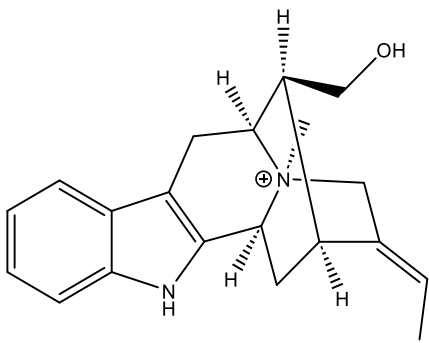
Tetrahydrolongicaudatine Y (Indoloquinolizine-type)



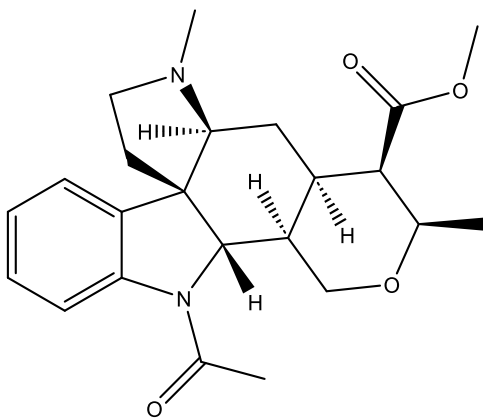
11-Methoxy-macusine A (Sarpagine-type)



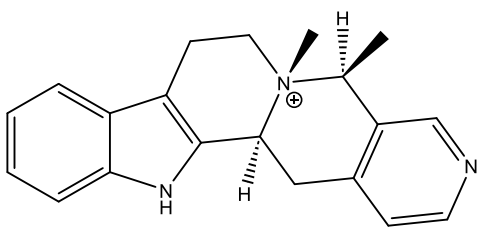
Macusine B (Sarpagine-type)



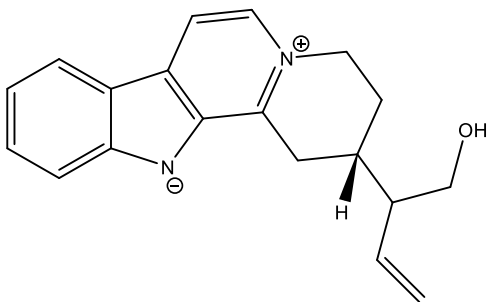
Malagashanine (Spermostrychnine-type)



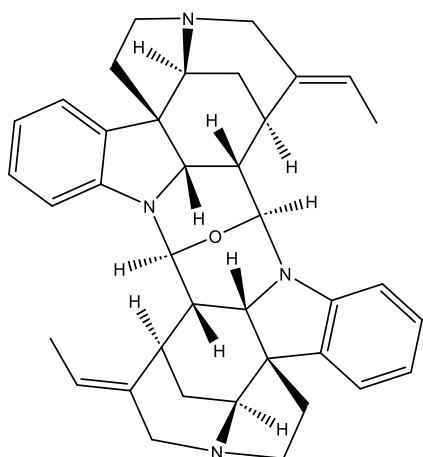
Malindine (Angustine-type)



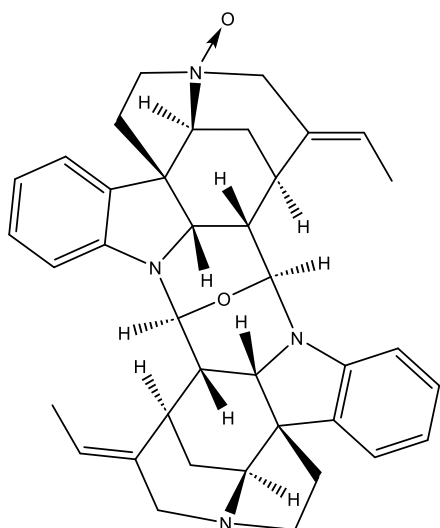
Matadine (Indoloquinolizine-type)



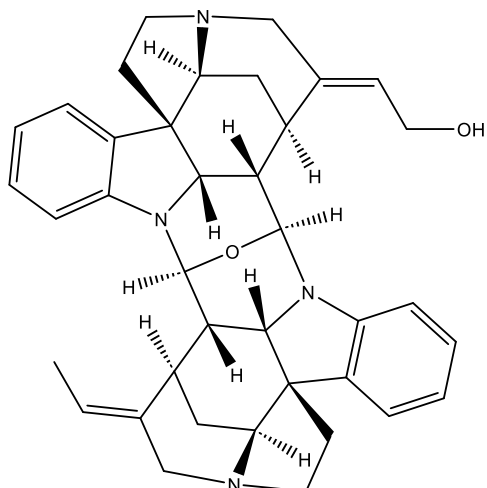
Matopensine (Toxiferine-type)



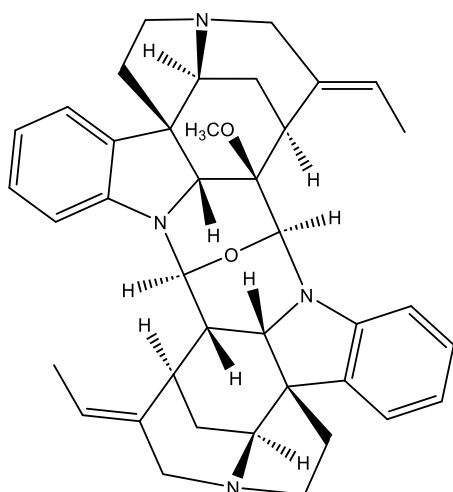
Matopensine N-oxide (Toxiferine-type)



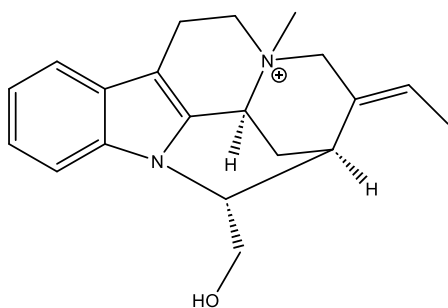
18-Hydroxymatopensine (Toxiferine-type)



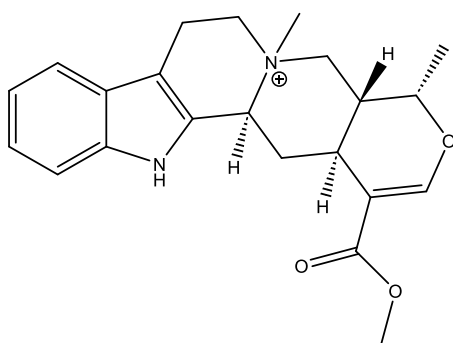
16-Methoxyisomatopensine (Toxiferine-type)



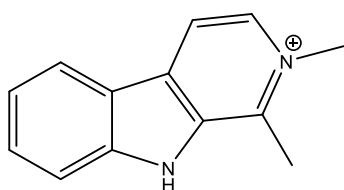
Mavacurine (Indoloquinolizine-type)



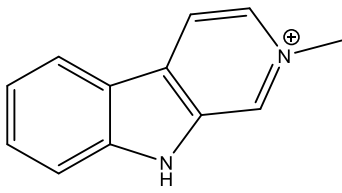
Melinonine A (Ajmalicine-type)



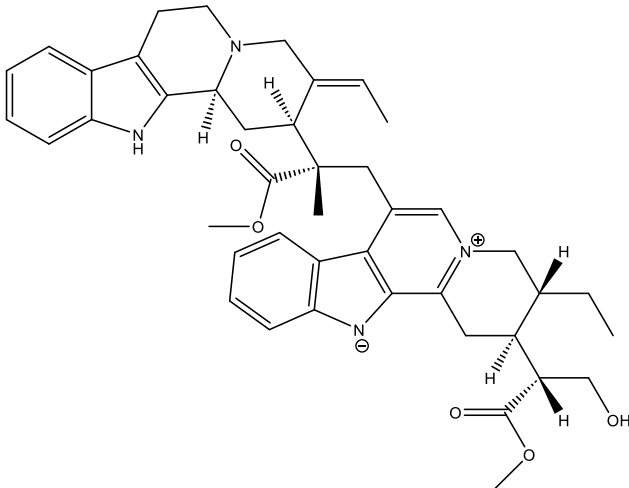
Melinonine F (β -carboline-type)



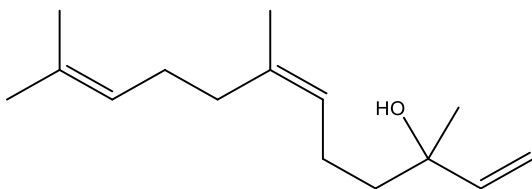
Normelinonine F (β -carboline-type)



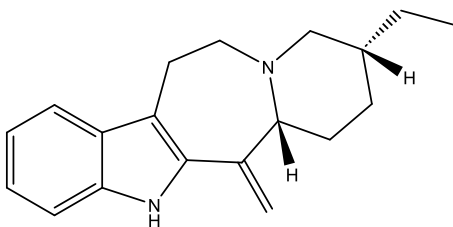
Moandaensine (Indoloquinolizine-type)



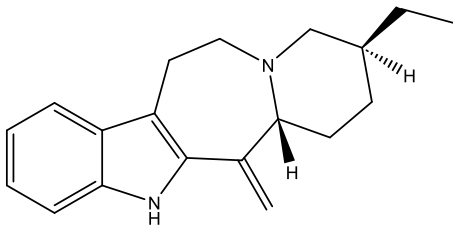
(E)-Nerolidol (Non-alkaloid)



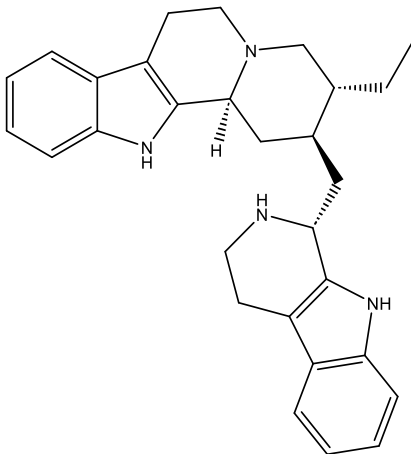
Ngouniensine (β -carboline-type)



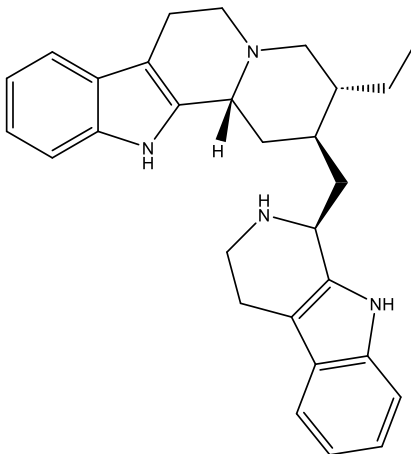
Epingouniensine (β -carboline-type)



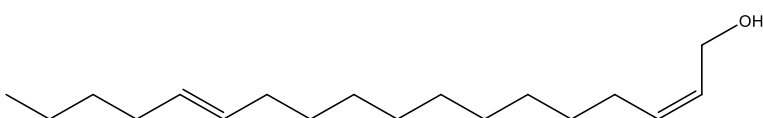
Ochrolifuanine A (Usambarensine-type)



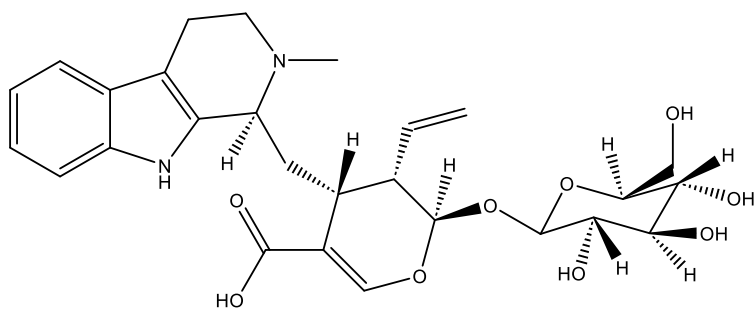
Ochrolifuanine E (Usambarensine-type)



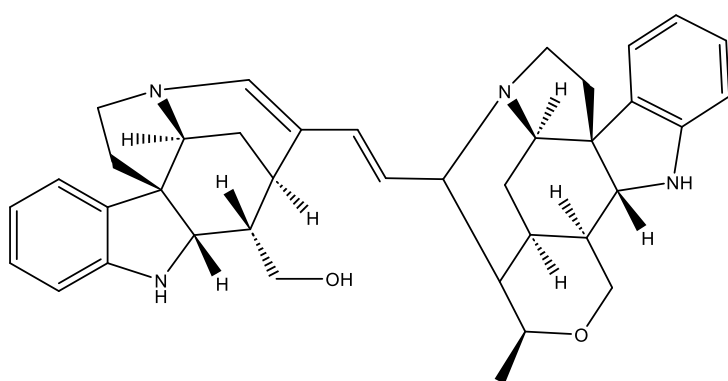
2,13-Octadecadien-1-ol (Non-alkaloid)



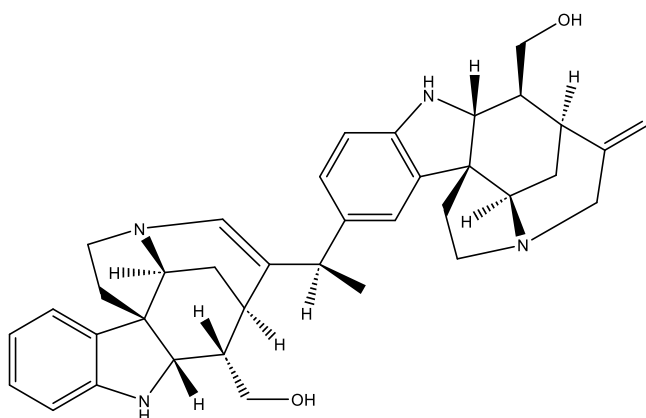
Palicoside (β -carboline-type)



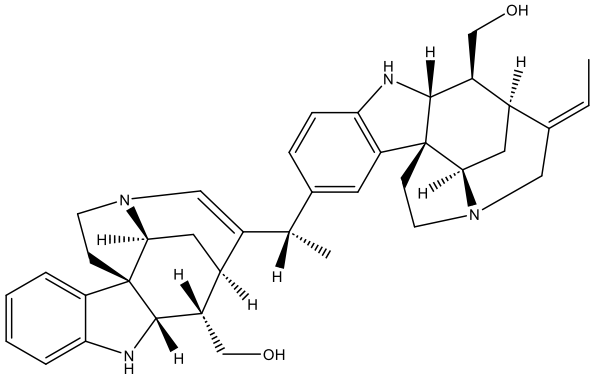
S-Panganensine (Retuline-type)



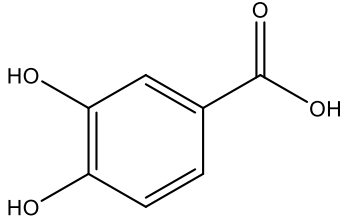
Panganensine X (Retuline-type)



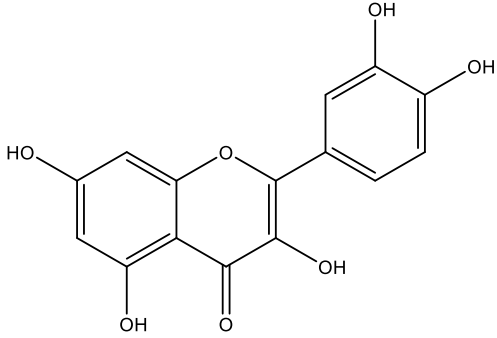
Panganensine Y (Retuline-type)



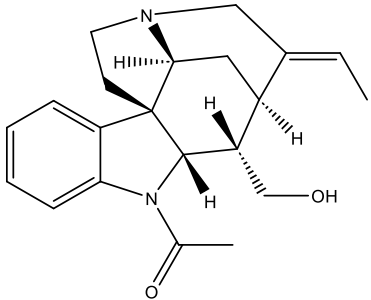
Protocatechuic acid (Non-alkaloid)



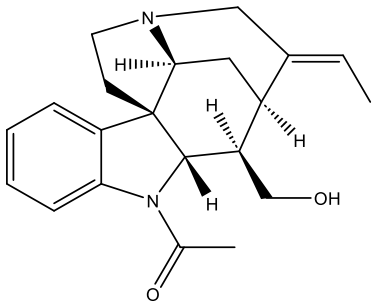
Quercetin (Non alkaloid)



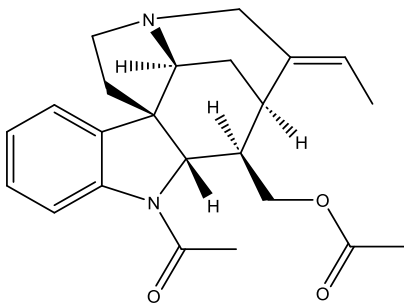
Retuline (Retuline-type)



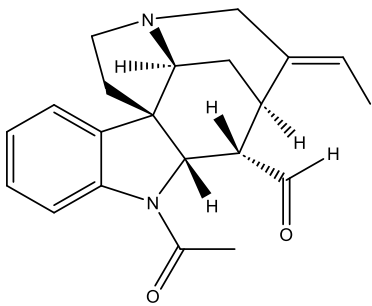
Isoretuline (Retuline-type)



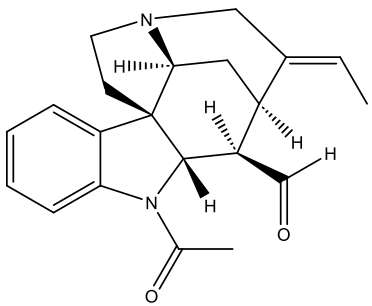
O-Acetylisoretuline (Retuline-type)



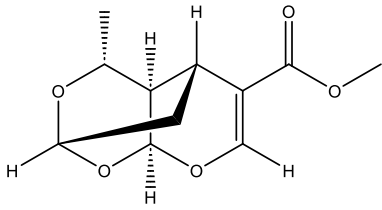
Retinal (Retuline-type)



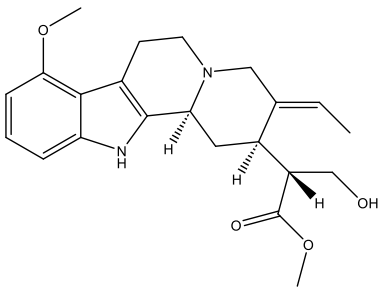
Isoretulinal (Retuline-type)



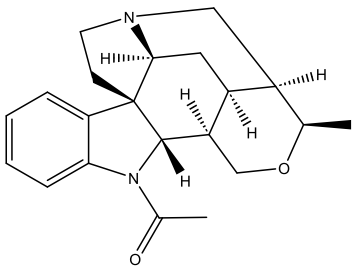
Sarracenin (Non-alkaloid)



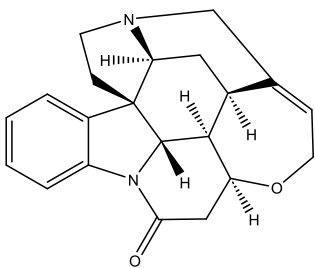
9-Methoxy-(16R)-E-isositsirikine (Indoloquinolizine-type)



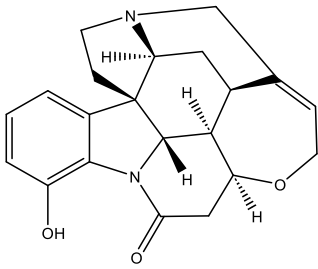
Spermostrychnine (Spermostrychnine-type)



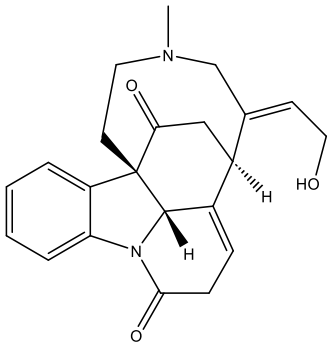
Strychnine (Strychnine-type)



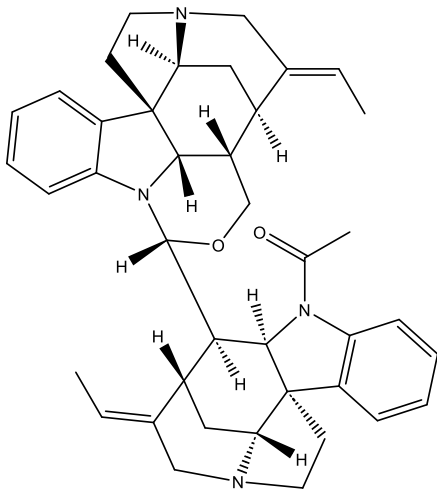
12-Hydroxystrychnine (Strychnine-type)



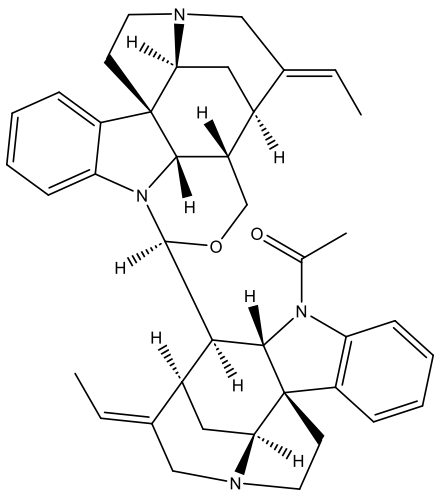
N-methyl-sec-isopseudostrychnine (Strychnine-type)



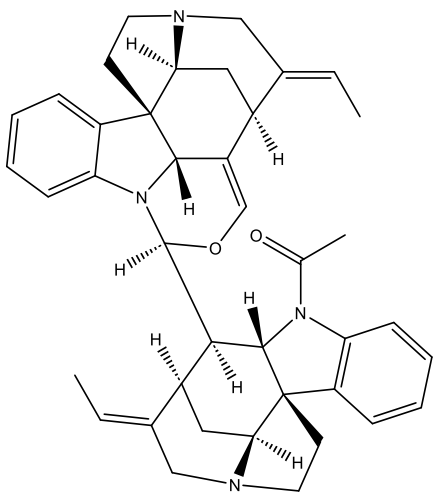
Strychnobiline (Strychnine-type)



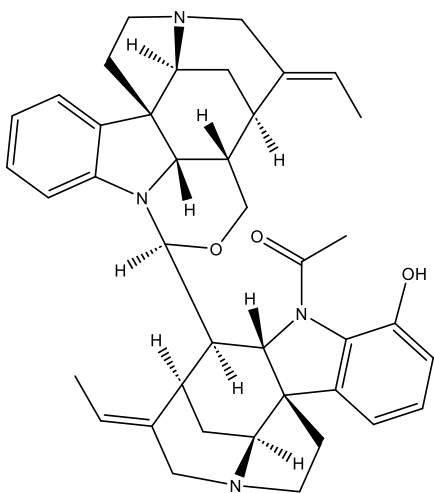
Isostrychnobiline (Strychnine-type)



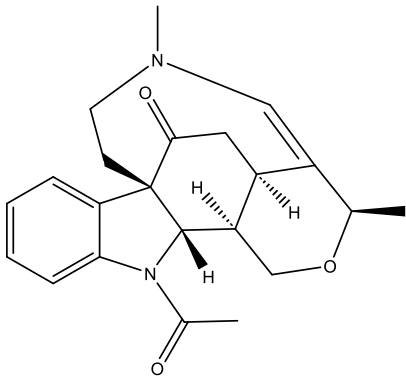
16,17-Dehydroisostrychnobiline (Strychnine-type)



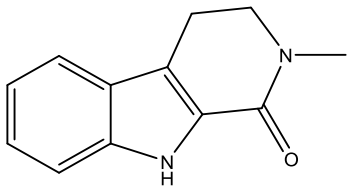
12'-Hydroxyisostrychnobiline (Strychnine-type)



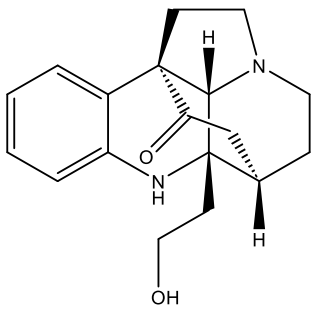
Strychnobasiline (Spermostrychnine-type)



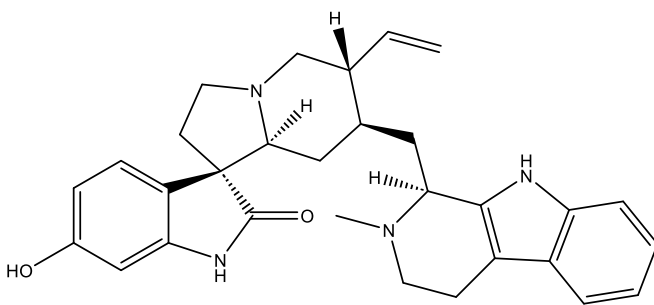
Strychnocarpine (β -carboline-type)



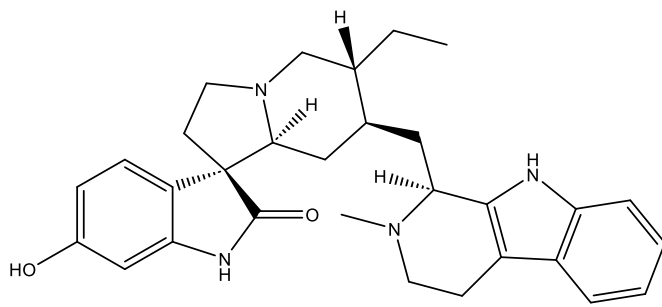
Strychnochromine (Spermostrychnine-type)



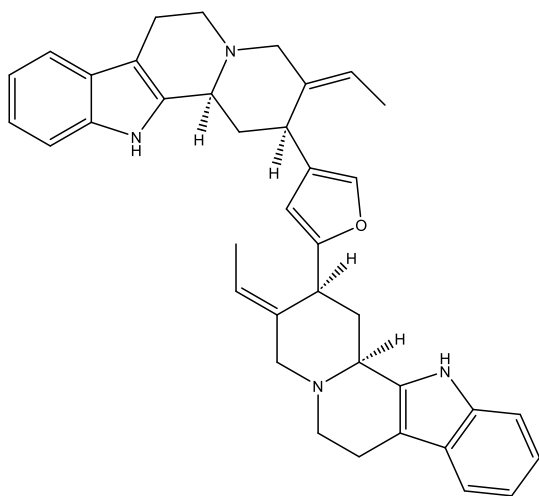
Strychnofoline (β -carboline-type)



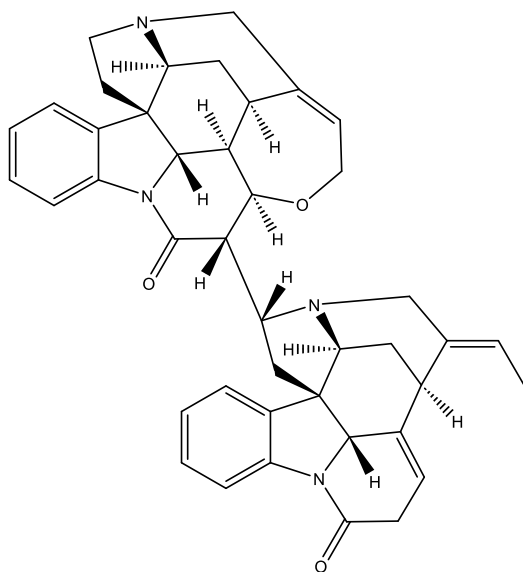
Isostrychnofoline (β -carboline-type)



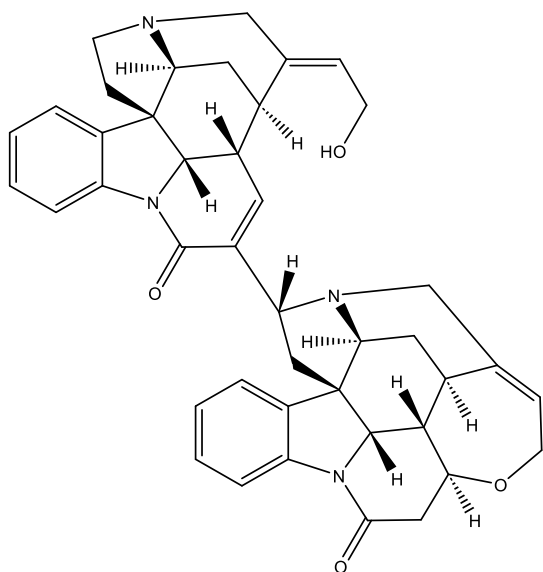
Strychnofurarine (Indoloquinolizine-type)



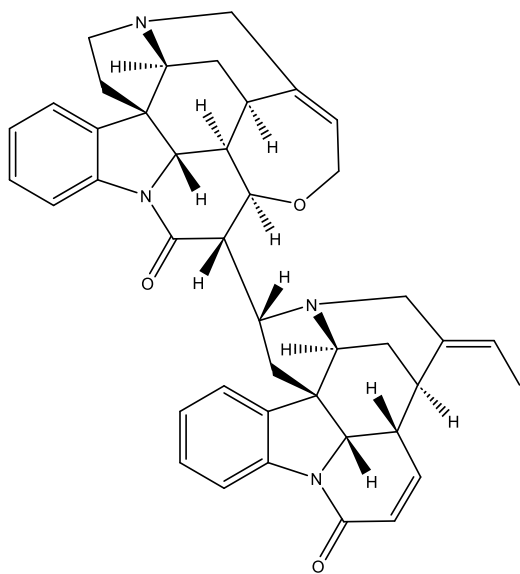
Strychnogucine A (Strychnine-type)



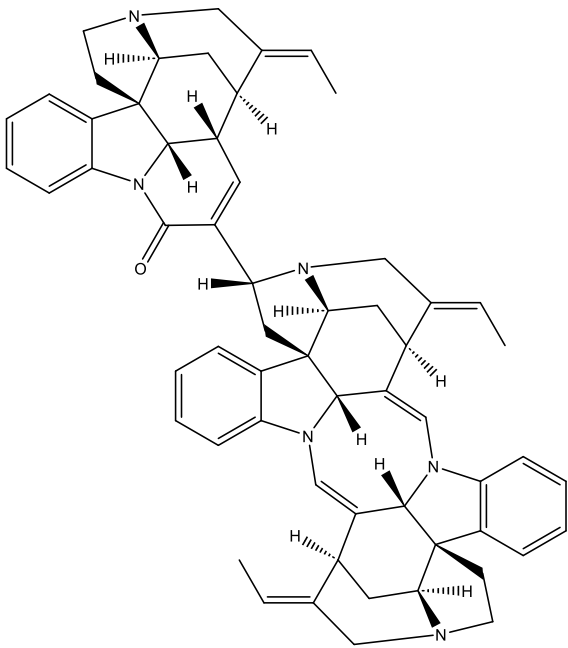
Strychnogucine B (Strychnine-type)



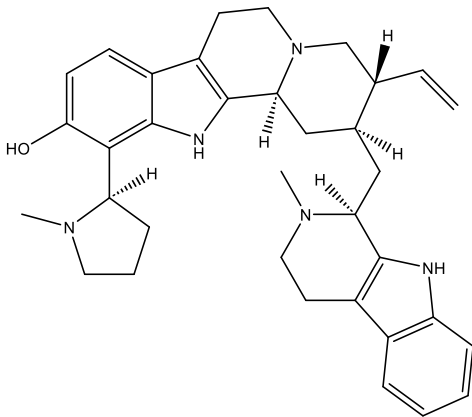
Strychnogucine C (Strychnine-type)



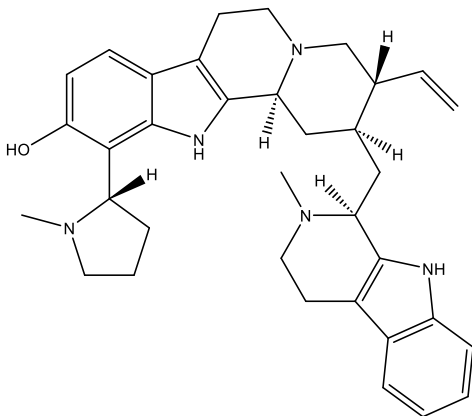
Strychnohexamine (Toxiferine-type)



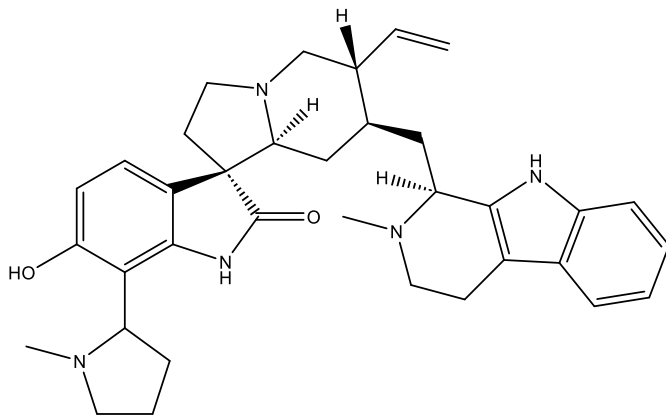
Strychnopentamine (Usambarensine-type)



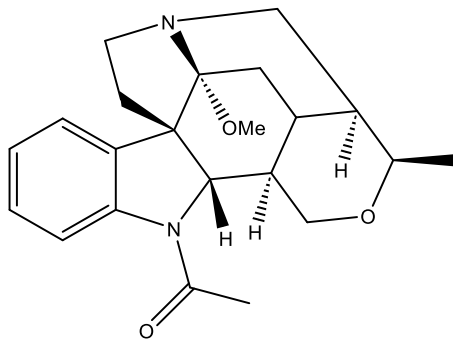
Isostrychnopentamine (Usambarensine-type)



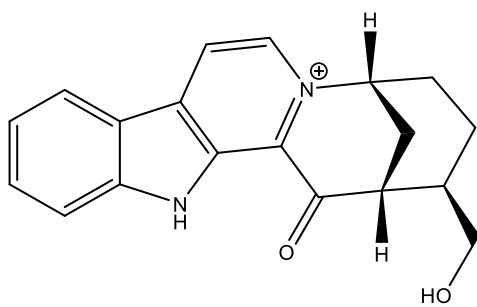
Strychnophylline (β -carboline-type)



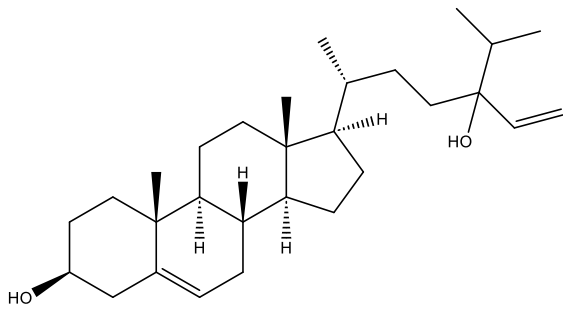
N₁-Acetyl-O-methylstrychnosplendine (Spermostrychnine-type)



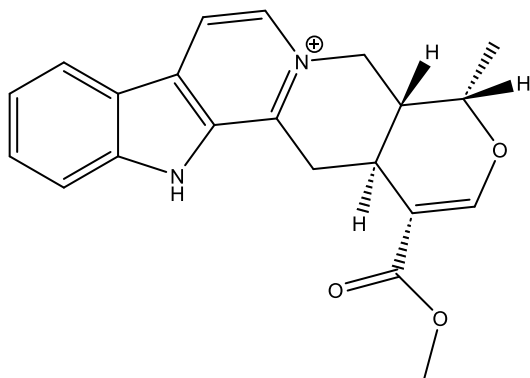
Strychnoxanthine (β -carboline-type)



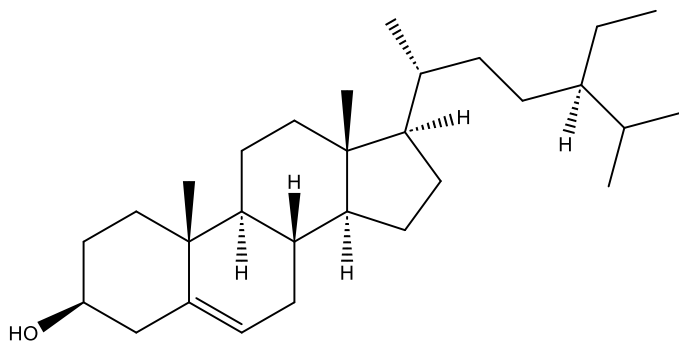
Saringosterol (Non-alkaloid)



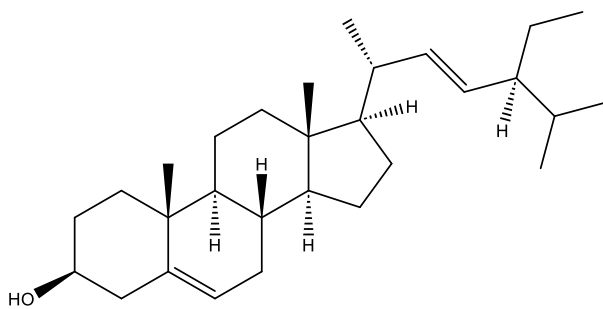
Serpentine (Ajmalicine-type)



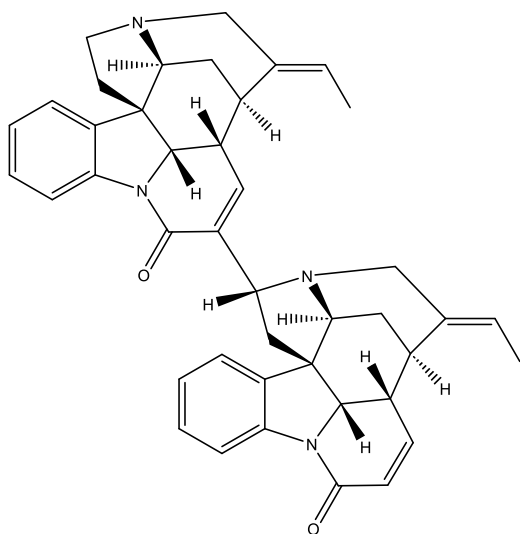
β -Sitosterol (Non-alkaloid)



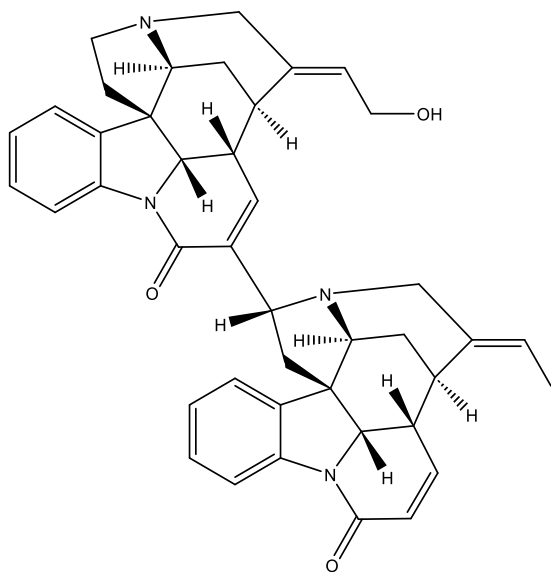
Stigmasterol (Stigmast-5-en-3 β -ol) (Non-alkaloid)



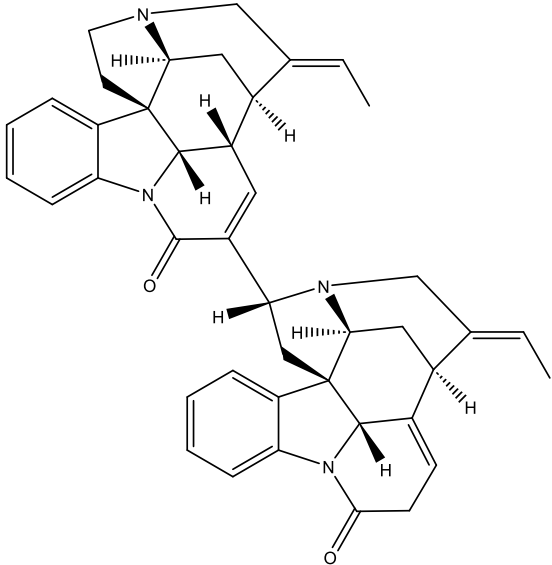
Sungucine (Strychnine-type)



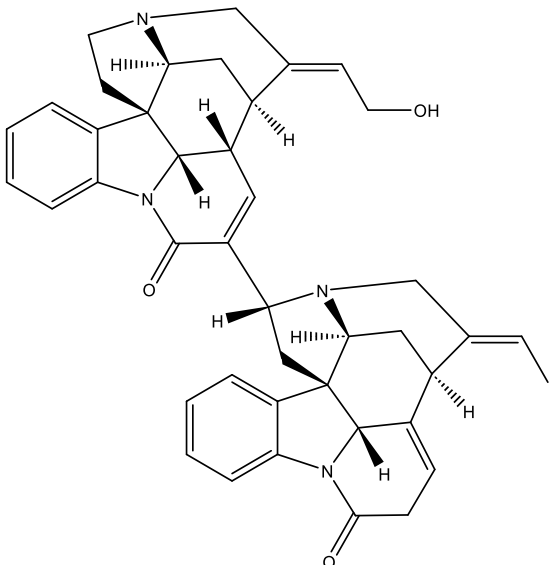
18-Hydroxysungucine (Strychnine-type)



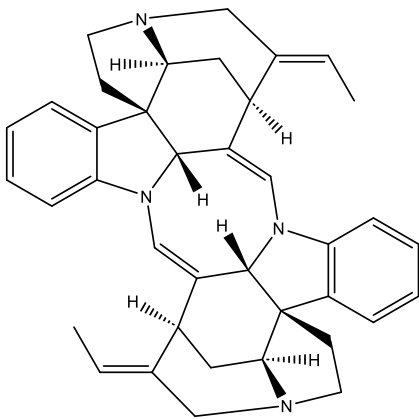
Isosungucine (Strychnine-type)



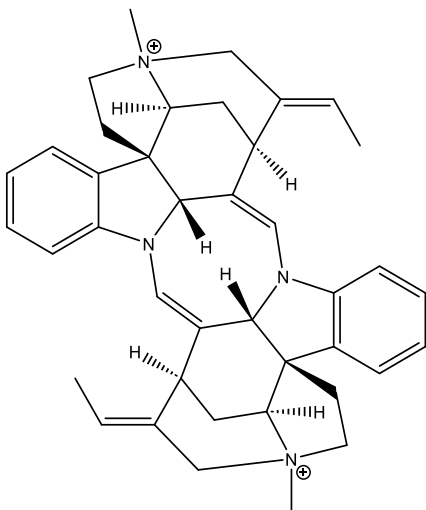
18-Hydroxyisosungucine (Strychnine-type)



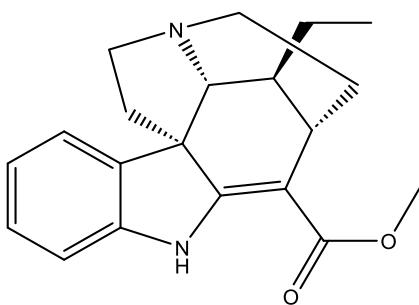
Bisnordihydrotoxiferine (Toxiferine-type)



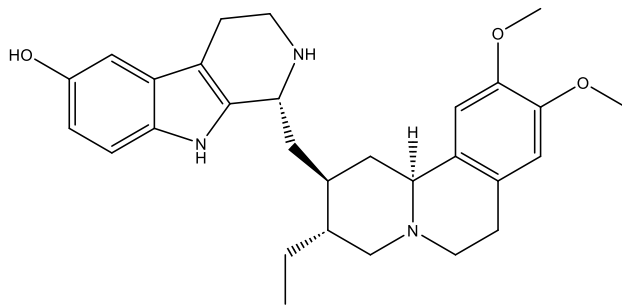
C-dihydrotoxiferine (Toxiferine-type)



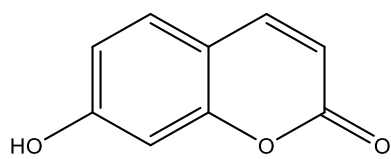
(+)-Tubotaiwine (Retuline-type)



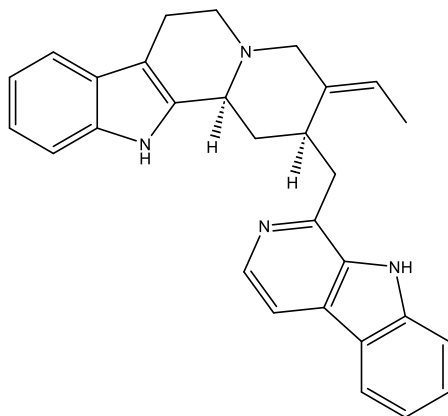
Tubulosine (β -carboline-type)



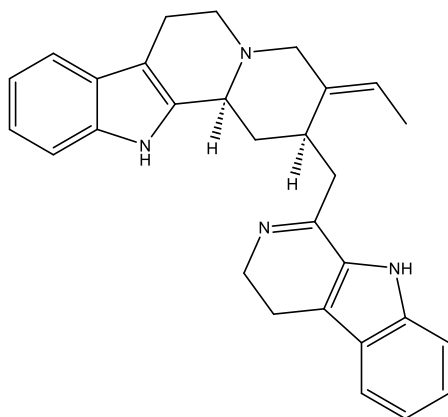
Umbelliferone (Non-alkaloid)



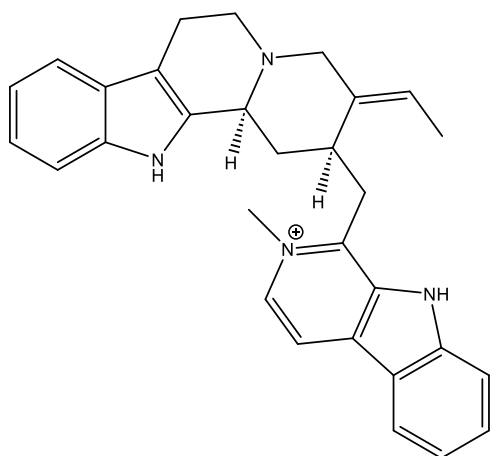
Usambarensine (Usambarensine-type)



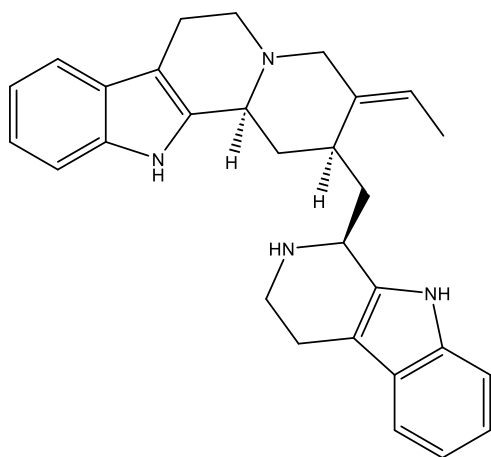
5',6'-Dihyousambarensine (Usambarensine-type)



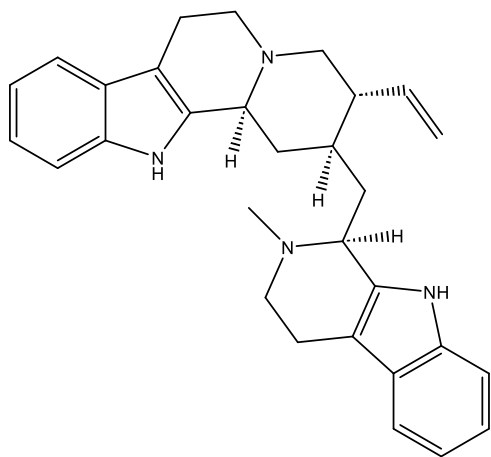
N_b-Methylusambarensine (Usambarensine-type)



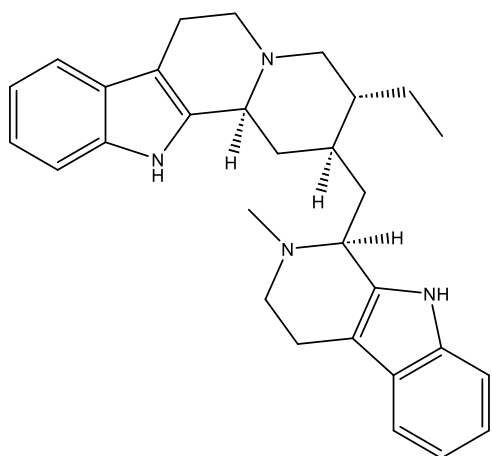
17,4',5',6'-Tetrahydrousambarensine (17S) = 17,4',5',6'-Tetrahydro-17 α -usambarensine (Usambarensine-type)



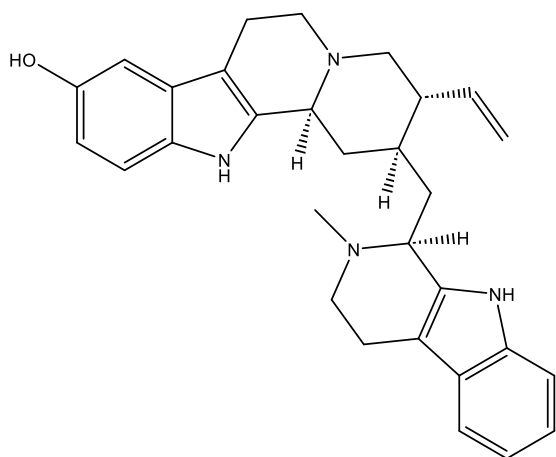
Usambarine (Nigritanine) (Usambarensine-type)



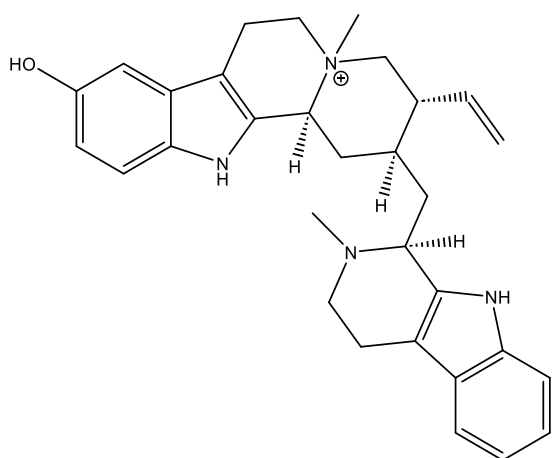
18,19-Dihydrousambarine (Usambarensine-type)



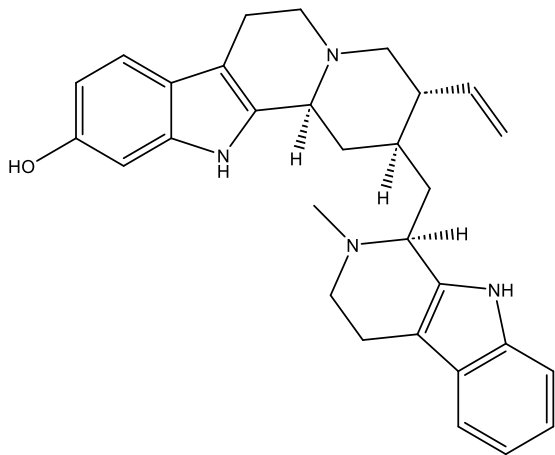
10-Hydroxyusambarine (Usambarensine-type)



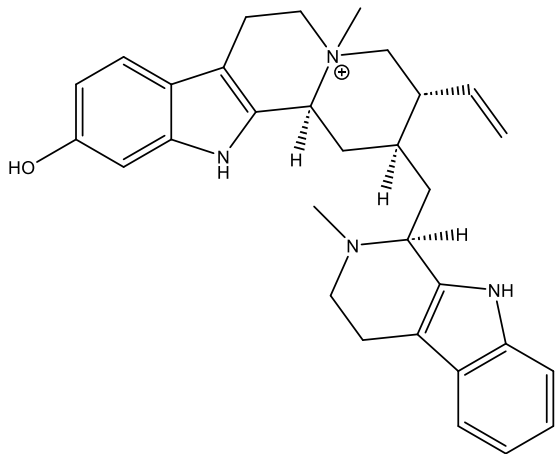
N_b-Methyl-10-hydroxyusambarine (Usambarensine-type)



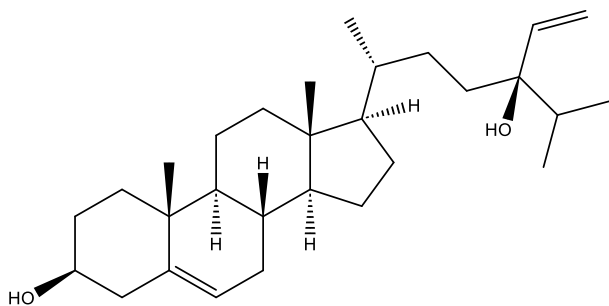
11-Hydroxyusambarine (Usambarensine-type)



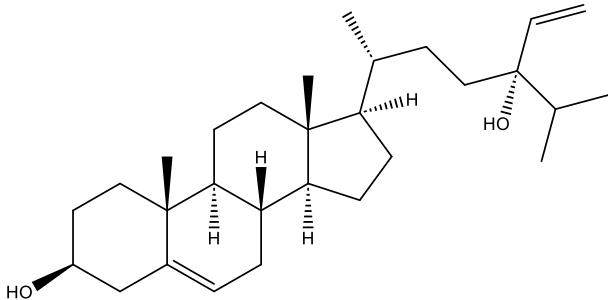
N_b-Methyl-11-hydroxyusambarine (Usambarensine-type)



(24R)-hydroperoxy-24-vinylcholesterol (Non-alkaloid)



(24S)-hydroperoxy-24-vinylcholesterol (Non-alkaloid)



Vomicine (Strychnine-type)

