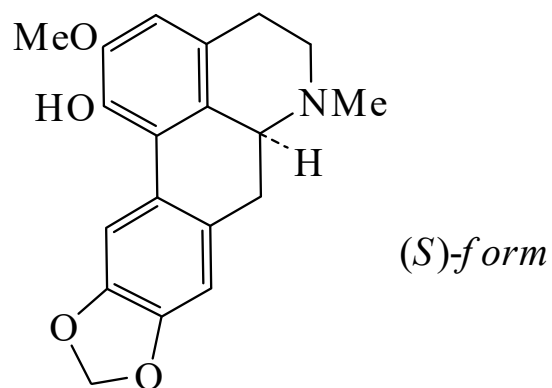




>>Entry Name: Domesticine

Synonym(s): 1-Hydroxy-2-methoxy-9,10-methylenedioxyaporphine



**Molecular Formula:** C<sub>19</sub>H<sub>19</sub>NO<sub>4</sub>

**Molecular Weight:** 325.363

**Accurate Mass:** 325.131409

**Percentage Composition:** C 70.14%; H 5.89%; N 4.30%; O 19.67%

>>Variant: (S)-form

**CAS Registry Number:** 476-71-1

**Type of Compound Code(s):** VX2640

**Molecular Formula:** C<sub>19</sub>H<sub>19</sub>NO<sub>4</sub>

**Molecular Weight:** 325.363

**Accurate Mass:** 325.131409

**Percentage Composition:** C 70.14%; H 5.89%; N 4.30%; O 19.67%

**Biological Source:** Alkaloid from *Nandina domestica* and *Cassytha pubescens*, also present in *Corydalis* and *Glaucium* spp. (Nandinaceae, Lauraceae, Fumariaceae, Papaveraceae)

**Melting Point:** Mp 115-117°

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub> +44.4 (c, 0.6 in CHCl<sub>3</sub>)

**Other Data:** (R)-enantiomer also known (synthetic)

>>Derivative: N-De-Me

Synonym(s): Nordomesticine. 1-Hydroxy-2-methoxy-9,10-methylenedioxyaporphine

**CAS Registry Number:** 14787-35-0

**Type of Compound Code(s):** VX2640

**Molecular Formula:** C<sub>18</sub>H<sub>17</sub>NO<sub>4</sub>

**Molecular Weight:** 311.337

**Accurate Mass:** 311.115759

**Percentage Composition:** C 69.44%; H 5.50%; N 4.50%; O 20.56%

**Biological Source:** Alkaloid from *Corydalis pubescens* (Fumariaceae)

**Physical Description:** Amorph.

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub> +31.4 (c, 0.83 in CHCl<sub>3</sub>)

>>Derivative: N-De-Me, N,O-di-Ac

**Physical Description:** Cryst. (EtOH)

**Melting Point:** Mp 252-254° (235-236°)

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub> +326.4 (c, 0.4 in CHCl<sub>3</sub>)

>>Derivative: N-Me

Synonym(s): N-Methyldomesticine

**CAS Registry Number:** 96400-62-3

**Type of Compound Code(s):** VX2640

**Molecular Formula:** C<sub>20</sub>H<sub>22</sub>NO<sub>4</sub><sup>(+)</sup>

**Molecular Weight:** 340.398

**Accurate Mass:** 340.154884

**Percentage Composition:** C 70.57%; H 6.51%; N 4.11%; O 18.80%

**Biological Source:** Quaternary alkaloid from the aerial parts of *Glaucium oxylobum* (Papaveraceae)

**Physical Description:** Thin prisms (MeOH) (as iodide)

**Melting Point:** Mp 255-256° (iodide)

**Other Data:** CAS no. refers to iodide