



**Melting Point:** Mp 204°

**Optical Rotation:**  $[\alpha]_{\text{D}}^{23} -310$  (c, 0.3 in  $\text{CHCl}_3$ )

**Hazard & Toxicity:** LD<sub>50</sub> (mus, ipr) 368 mg/kg

>>Derivative: Hydrochloride

**Melting Point:** Mp 250°

>>Derivative: 13β-Hydroxy

**Synonym(s):** 13-Hydroxystylopine

**CAS Registry Number:** 53777-76-7

**Molecular Formula:** C<sub>19</sub>H<sub>17</sub>NO<sub>5</sub>

**Molecular Weight:** 339.347

**Accurate Mass:** 339.110674

**Percentage Composition:** C 67.25%; H 5.05%; N 4.13%; O 23.57%

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

**Physical Description:** Prisms (EtOH)

**Melting Point:** Mp 213-215°

**Optical Rotation:**  $[\alpha]_{\text{D}} -259$  (c, 0.1 in  $\text{CHCl}_3$ )

>>Derivative: 13β-Hydroxy, N-Me

**Synonym(s):** 13β-Hydroxy-N-methylstylopinium

**CAS Registry Number:** 108385-06-4

**Molecular Formula:** C<sub>20</sub>H<sub>20</sub>NO<sub>5</sub><sup>(+)</sup>

**Molecular Weight:** 354.382

**Accurate Mass:** 354.134149

**Percentage Composition:** C 67.79%; H 5.69%; N 3.95%; O 22.57%

**Biological Source:** Quaternary alkaloid from aerial parts and roots of *Papaver atlanticum* (Papaveraceae)

**Physical Description:** Cryst. (MeOH) (as iodide)

**Melting Point:** Mp 254-256° (iodide)

**Optical Rotation:**  $[\alpha]_{\text{D}}^{20} -144$  (c, 0.1 in MeOH) (iodide)

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

>>Derivative: 13β-Acetoxy

**Physical Description:** Fine needles ( $\text{CH}_2\text{Cl}_2/\text{Et}_2\text{O}$ )

**Melting Point:** Mp 237-239° (sealed tube)

>>Variant: (±)-form

**CAS Registry Number:** 4312-32-7

**Molecular Formula:** C<sub>19</sub>H<sub>17</sub>NO<sub>4</sub>

**Molecular Weight:** 323.348

**Accurate Mass:** 323.115759

**Percentage Composition:** C 70.58%; H 5.30%; N 4.33%; O 19.79%

**Biological Source:** Alkaloid from several *Corydalis* spp. (Fumariaceae)

**Physical Description:** Needles ( $\text{CHCl}_3$ )

**Melting Point:** Mp 222-223°

**Boiling Point:** Bp<sub>0.01</sub> 260°

>>Derivative: Hydrochloride

**Melting Point:** Mp 246° (266°)

>>Derivative: 13β-Hydroxy

**CAS Registry Number:** 53833-90-2

**Source/Synthesis:** Synthetic

**Physical Description:** Fine needles (EtOH)

**Melting Point:** Mp 219-221 dec.°