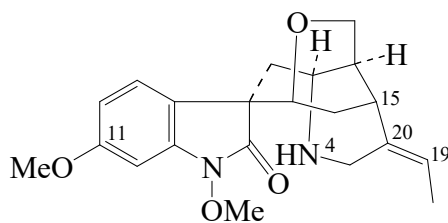




>>Entry Name: **Humantenirine**

Synonym(s): 4-Demethyl-11-methoxyhumantenine, 9Cl



CAS Registry Number: 82375-30-2

Molecular Formula:  $C_{21}H_{26}N_2O_4$

Molecular Weight: 370.447

Accurate Mass: 370.189258

Percentage Composition: C 68.09%; H 7.07%; N 7.56%; O 17.28%

Biological Source: Alkaloid from Hu-Man-Teng (root of *Gelsemium elegans*) and from the stems of *Gelsemium rankinii* (Loganiaceae)

Physical Description: Needles ( $Me_2CO$ )

Melting Point: Mp 167-170°

Optical Rotation:  $[\alpha]_D^{20} -135$  (c, 0.56 in MeOH)

>>Derivative:  $N^4$ -Me

Synonym(s): **11-Methoxyhumantenine**

CAS Registry Number: 93914-74-0

Molecular Formula:  $C_{22}H_{28}N_2O_4$

Molecular Weight: 384.474

Accurate Mass: 384.204908

Percentage Composition: C 68.73%; H 7.34%; N 7.29%; O 16.65%

Biological Source: Alkaloid from the whole plant of *Gelsemium elegans* (Loganiaceae)

Physical Description: Yellow powder

Optical Rotation:  $[\alpha]_D^{22} -146.5$  (c, 0.06 in MeOH)

>>Derivative:  $O^{11}$ -De-Me

Synonym(s): **11-Hydroxyrankinidine**. 11-*O*-Demethylhumantenirine

CAS Registry Number: 122590-03-8

Molecular Formula:  $C_{20}H_{24}N_2O_4$

Molecular Weight: 356.421

Accurate Mass: 356.173608

Percentage Composition: C 67.40%; H 6.79%; N 7.86%; O 17.96%

Biological Source: Alkaloid from the whole plant of *Gelsemium elegans* (Loganiaceae)

Physical Description: Needles

Melting Point: Mp 212-214°

Optical Rotation:  $[\alpha]_D^{22} -135$  (c, 0.06 in MeOH)

>>Derivative: 11-Demethoxy

Synonym(s): 4-Demethylhumantenine, 9Cl. **Rankinidine**

CAS Registry Number: 106466-66-4

Molecular Formula:  $C_{20}H_{24}N_2O_3$

Molecular Weight: 340.421

Accurate Mass: 340.178693

Percentage Composition: C 70.57%; H 7.11%; N 8.23%; O 14.10%

Biological Source: Alkaloid from the stems of *Gelsemium rankinii* (Loganiaceae)

Physical Description: Needles ( $Me_2CO$ )

Melting Point: Mp 175-178°

Optical Rotation:  $[\alpha]_D^{20} -126$  (c, 0.07 in MeOH)

Other Data: Dec. rapidly to gum, even at 5°