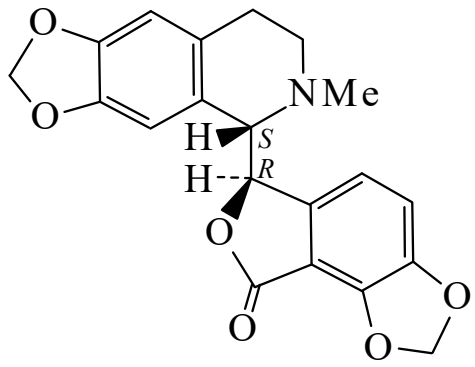
>>**Entry Name: Bicuculline**

Synonym(s): 6-(5,6,7,8-Tetrahydro-6-methyl-1,3-benzodioxolo[4,5-*g*]isoquinolin-5-yl)furo[3,4-*e*]-1,3-benzodioxol-8(6*H*)-one, 9Cl



(+)-*form*

Molecular Formula: $C_{20}H_{17}NO_6$
Molecular Weight: 367.357
Accurate Mass: 367.105589
Percentage Composition: C 65.39%; H 4.66%; N 3.81%; O 26.13%
General Statement: Diastereoisomeric with Adlumidine GPJ79-J
Biological Source: Alkaloid from many *Corydalis* spp. and several *Fumaria* spp. (opt. rotn. of isolates not recorded in some cases). Also isol. from *Adlumia fungosa* (*Adlumia cirrhosa*) (Fumariaceae, Papaveraceae)
Use/Importance: $GABA_A$-receptor antagonist. Contradictory data as to activity towards heart, intestinal and uterine muscle (relaxant and tonic actions claimed). Convulsant. Much used pharmacological tool
Calculated Log P Data: Log P 2.66 (uncertain value) (calc)

>>**Variant:** (+)-form

CAS Registry Number: 485-49-4

Molecular Formula: $C_{20}H_{17}NO_6$
Molecular Weight: 367.357
Accurate Mass: 367.105589
Percentage Composition: C 65.39%; H 4.66%; N 3.81%; O 26.13%
Biological Source: Alkaloid from *Corydalis gigantea, Corydalis gortschakovii, Corydalis govaniana, Corydalis lutea, Corydalis marshalliana, Corydalis pseudo-adunca, Fumaria parviflora (F. indica)* and *Fumaria vaillantii* (Fumariaceae)
Physical Description: Cryst. (EtOH or MeOH)
Melting Point: Mp 194-195° (177°). Mp 215°
Optical Rotation: $[\alpha]_D$ +137.2 ($CHCl_3$). $[\alpha]_D^{20}$+132.7 (c, 0.049 in $CHCl_3$)

Aldrich: 28526-9
Fluka: 14340
Rare Chemicals Library: S58012-0
Sigma: B9130

>>**Derivative:** Picrate

Melting Point: Mp 202°

>>**Derivative:** Methiodide

CAS Registry Number: 40709-69-1
Physical Description: Cryst.
Melting Point: Mp 203-207°

>>**Variant:** (–)-form

CAS Registry Number: 19730-80-4

Molecular Formula: $C_{20}H_{17}NO_6$
Molecular Weight: 367.357
Accurate Mass: 367.105589
Percentage Composition: C 65.39%; H 4.66%; N 3.81%; O 26.13%
Biological Source: Alkaloid from *Corydalis severtzovii* and *Fumaria vaillantii* (Fumariaceae)
Physical Description: Cryst. (EtOH or MeOH/Me_2CO)
Melting Point: Mp 193-195°
Optical Rotation: $[\alpha]_D^{33}$–128 (c, 0.27 in $CHCl_3$) (–110)