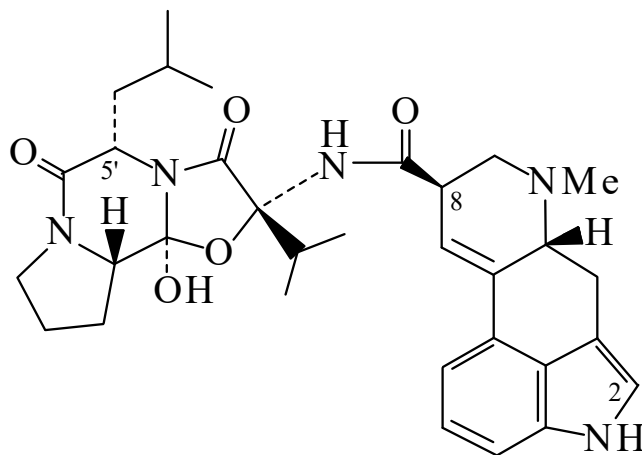




>>Entry Name: α -Ergocryptine

Synonym(s): 12'-Hydroxy-2'-(1-methylethyl)-5'-(2-methylpropyl)ergotaman-3',6',18-trione, 9Cl. Ergocryptine. Ergokryptine. Ergomolline



Absolute
configuration

CAS Registry Number: 511-09-1

Molecular Formula: $C_{32}H_{41}N_5O_5$

Molecular Weight: 575.706

Accurate Mass: 575.31077

Percentage Composition: C 66.76%; H 7.18%; N 12.16%; O 13.90%

Biological Source: Alkaloid from ergot (*Claviceps purpurea*)

Biological Use/Importance: Pharmacol. effects resemble those of Ergotamine [BCL03-C](#) but is more toxic and little used clinically

Melting Point: Mp 211-212 dec. $^{\circ}$ (MeOH)

Optical Rotation: $[\alpha]_D^{20}$ -120 (c, 1 in Py). $[\alpha]_D^{20}$ -198 (c, 1 in $CHCl_3$)

Hazard & Toxicity: LD₅₀ (rbt, ivn) 0.95 mg/kg

Sigma: E5625

>>Derivative: Me ether

Synonym(s): 12'-O-Methyl- α -ergocryptine

Molecular Formula: $C_{33}H_{43}N_5O_5$

Molecular Weight: 589.733

Accurate Mass: 589.32642

Percentage Composition: C 67.21%; H 7.35%; N 11.88%; O 13.56%

Biological Source: Alkaloid from *Claviceps purpurea*

>>Derivative: 8-Epimer

Synonym(s): α -Ergocryptinine

CAS Registry Number: 511-10-4

Source/Synthesis: Formed when α -Ergocryptine is boiled with MeOH

Physical Description: Cryst. (EtOH)

Melting Point: Mp 238 dec. $^{\circ}$

Optical Rotation: $[\alpha]_D^{20}$ +405 (c, 0.5 in $CHCl_3$). $[\alpha]_D^{20}$ +485 (c, 0.5 in Py)

>>Derivative: 2-Bromo

Synonym(s): Bromocriptine, BAN, INN, USAN. Bromocryptine. Axialit. Bagren. Bromergon. Parilac. Parlodel. Parodel. Pravidel. Umprel. CB 154. NSC 169774. Bromergocryptine. Many other names

CAS Registry Number: 25614-03-3

Molecular Formula: $C_{32}H_{40}BrN_5O_5$

Molecular Weight: 654.602

Accurate Mass: 653.241281

Percentage Composition: C 58.72%; H 6.16%; Br 12.21%; N 10.70%; O 12.22%

Biological Use/Importance: Dopamine D₂-receptor agonist used for treatment of prolactinomas. Antiparkinsonian agent. Free radical scavenger antioxidant, prolactin inhibitor

Physical Description: Cryst.

Development Status: Marketed drug. Launched 1982

Melting Point: Mp 215-218 dec. $^{\circ}$