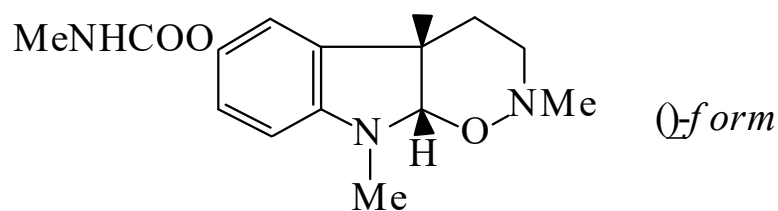




>>Entry Name: Geneserine

Synonym(s): 2,3,4,4a,9,9a-Hexahydro-2,4a,9-trimethyl-1,2-oxazino[6,5-*b*]indol-6-ol methylcarbamate (ester), 9Cl. **Eseridine**, INN. Eserine aminoxide. Eserine oxide. Physostigmine oxide



Molecular Formula: C₁₅H₂₁N₃O₃

Molecular Weight: 291.349

Accurate Mass: 291.158292

Percentage Composition: C 61.84%; H 7.26%; N 14.42%; O 16.47%

Use/Importance: Anticholinesterase agent used in gastrointestinal disorders and chronic dermatoses. Possesses purgative props.

>>Variant: (–)-form

CAS Registry Number: 25573-43-7

Molecular Formula: C₁₅H₂₁N₃O₃

Molecular Weight: 291.349

Accurate Mass: 291.158292

Percentage Composition: C 61.84%; H 7.26%; N 14.42%; O 16.47%

Biological Source: Alkaloid from *Physostigma venenosum* (Leguminosae) also formed from Eserine [BCL85-C](#) by oxidn.

Melting Point: Mp 128-129°

Optical Rotation: [α]_D –175 (EtOH)

Other Data: Pharmacol. active isomer

>>Derivative: Picrate

Melting Point: Mp 175°

>>Derivative: Methiodide

Melting Point: Mp 215°

>>Variant: (±)-form

CAS Registry Number: 105816-13-5

Molecular Formula: C₁₅H₂₁N₃O₃

Molecular Weight: 291.349

Accurate Mass: 291.158292

Percentage Composition: C 61.84%; H 7.26%; N 14.42%; O 16.47%

Source/Synthesis: Synthetic

Physical Description: Oil

References:

Bild, N. *et al.*, *Helv. Chim. Acta*, 1967, **50**, 1885, (*ms*)

Hootele, C., *Tet. Lett.*, 1969, 2713, (*uv, ir, ms, pmr, struct*)

Robinson, B. *et al.*, *J.C.S.(C)*, 1970, 2077, (*config*)

Shishido, K. *et al.*, *J.C.S. Perkin I*, 1987, 2491, (*synth, ir, pmr*)

Wright, C. *et al.*, *Tet. Lett.*, 1987, **28**, 6389, (*synth*)

Bacchi, A. *et al.*, *Acta Cryst. C*, 1994, **50**, 1126, (*cryst struct*)

Node, M. *et al.*, *Chem. Pharm. Bull.*, 1996, **44**, 715, (*synth*)