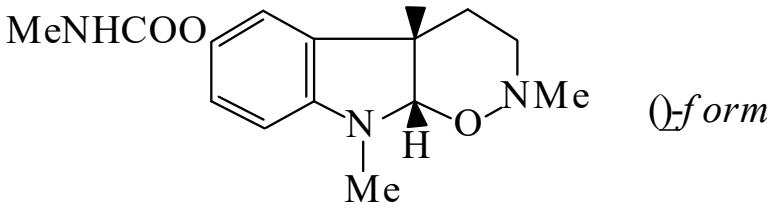
>>**Entry Name: Geneserine**
Synonym(s): 2,3,4,4*a*,9,9*a*-Hexahydro-2,4*a*,9-trimethyl-1,2-oxazino[6,5-*b*]indol-6-ol methylcarbamate (ester), 9CI. **Eseridine,** INN. Eserine aminoxide. Eserine oxide. Physostigmine oxide



(-)-*form*

Molecular Formula: $C_{15}H_{21}N_3O_3$
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: $C_{15}H_{21}N_3O_3$
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: $[\alpha]_D$ –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: $C_{15}H_{21}N_3O_3$
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:

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