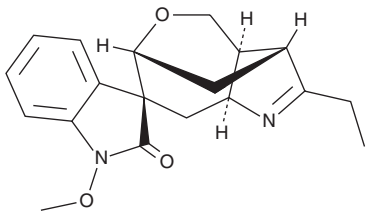
PRODUCT INFORMATION

Gelsenicine

Item No. 46552

CAS Registry No.:	82354-38-9
Formal Name:	(3S,3′R,3′aS,6′R,8′aS)-2′-ethyl-3′a,4′,8′,8′a-tetrahydro-1-methoxy-spiro[3H-indole-3,7′(6′H)-[3,6]methano[3H]oxepino[4,3-b]pyrrol]-2(1H)-one
MF:	$C_{19}H_{22}N_2O_3$
FW:	326.4
Purity:	≥98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years
Item Origin:	Plant/*Gelsemium elegans*



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Gelsenicine is supplied as a solid. A stock solution may be made by dissolving the gelsenicine in the solvent of choice, which should be purged with an inert gas. Gelsenicine is sparingly soluble (1-10 mg/ml) in ethanol.

Description

Gelsenicine is an indole alkaloid that has been found in *G. elegans* and has antinociceptive activity.[1-3] It reduces acetic acid-induced writhing and formalin-induced paw licking in mice (ED_{50}s = 10.4 and 7.4 µg/kg, respectively) and inhibits chronic constriction injury-induced thermal hyperalgesia in a mouse model of neuropathic pain (ED_{50} = 9.8 µg/kg).[2] Gelsenicine is lethal to rats (LD_{50}s = 0.52 and 0.996 mg/kg in female and male rats, respectively).[3]

References

1. Lin, L., Cordell, G.A., Ni, C., *et al*. Gelsamydine, an indole alkaloid from *Gelsemium elegans* with two monoterpene units. *J. Org. Chem.* **54(13)**, 3199-3202 (1989).
2. Liu, M., Shen, J., Liu, H., *et al*. Gelsenicine from *Gelsemium elegans* attenuates neuropathic and inflammatory pain in mice. *Biol. Pharm. Bull.* **34(12)**, 1877-1880 (2011).
3. Li, Y.J., Yang, K., Long, X.M., *et al*. Toxicity assessment of gelsenicine and the search for effective antidotes. *Hum. Exp. Toxicol.* **41**, 1-13 (2022).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

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