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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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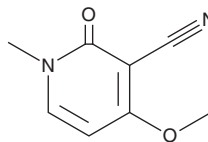
PRODUCT INFORMATION



Ricinine

Item No. 33748

CAS Registry No.: 524-40-3
Formal Name: 1,2-dihydro-4-methoxy-1-methyl-2-oxo-3-pyridinecarbonitrile
Synonyms: NSC 409913, NSC 642604
MF: C₈H₈N₂O₂
FW: 164.2
Purity: ≥98%
UV/Vis.: λ_{max}: 219, 316 nm
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years
Item Origin: Synthetic



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

Laboratory Procedures

Ricinine is supplied as a solid. A stock solution may be made by dissolving the ricinine in the solvent of choice, which should be purged with an inert gas. Ricinine is slightly soluble in methanol and DMSO.

Description

Ricinine is a piperidine alkaloid that has been found in *R. communis* and has diverse biological activities.¹⁻⁴ It is an inhibitor of acetylcholinesterase (AChE; IC₅₀ = 54.5 µg/ml).² It scavenges ABTS (Item No. 27317) radicals and chelates iron (IC₅₀s = 102.65 and 104.32 µg/ml, respectively). Ricinine is toxic to adult *A. gambiae* when used at a concentration of 0.04 mg/ml in a feeding assay.³ It is also toxic to mice with an intraperitoneal LD₅₀ value of 340 mg/kg but an oral LD₅₀ value of 3,000 mg/kg.¹ It has been used as a biomarker of ricin poisoning.⁴

References

1. Franke, H., Scholl, R., and Aigner, A. Ricin and *Ricinus communis* in pharmacology and toxicology—from ancient use and “Papyrus Ebers” to modern perspectives and “poisonous plant of the year 2018”. *Naunyn-Schmiedeberg's Arch. Pharmacol.* **392**(10), 1181-1208 (2019).
2. Khan, B.R., Ghous, T., Rasheed, A., et al. Evaluation of anti-acetylcholinesterase activity and antioxidant potential of ricinine (a central nervous system stimulant) isolated from *Ricinus communis* L. *J. Chem. Soc. Pak.* **38**(2), 326-332 (2016).
3. Wachira, S.W., Omar, S., Jacob, J.W., et al. Toxicity of six plant extracts and two pyridone alkaloids from *Ricinus communis* against the malaria vector *Anopheles gambiae*. *Parasit. Vectors* **7**, 312 (2014).
4. Johnson, R.C., Lemire, S.W., Woolfitt, A.R., et al. Quantification of ricinine in rat and human urine: A biomarker for ricin exposure. *J. Anal. Toxicol.* **29**(3), 149-155 (2005).

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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