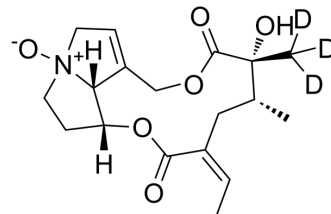


Senecionine N-oxide-d₃

Cat. No.:	HY-N6637S
Molecular Formula:	C ₁₈ H ₂₂ D ₃ NO ₆
Molecular Weight:	354.41
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Senecionine N-oxide-d ₃ is the deuterium labeled Senecionine N-oxide. Senecionine n-oxide is the primary product of pyrrolizidine alkaloid biosynthesis in root cultures of <i>Senecio vulgaris</i> . Senecionine N-oxide has anti-cancer activity[1][2].
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019;53(2):211-216.
- [2]. Thomas Hartmann, et al. Senecionine n-oxide, the primary product of pyrrolizidine alkaloid biosynthesis in root cultures of *Senecio vulgaris*. *Phytochemistry*, Volume 26, Issue 6, 1987, Pages 1639-1643
- [3]. Kupchan SM, et al. Tumor inhibitors. XXII. Senecionine and senecionine N-oxide, the active principles of *Senecio triangularis*. *J Pharm Sci*. 1967 Apr;56(4):541-3.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA