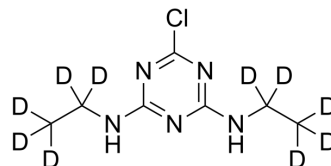


Simazine-d₁₀

Cat. No.:	HY-B2046S
CAS No.:	220621-39-6
Molecular Formula:	C ₇ H ₂ D ₁₀ ClN ₅
Molecular Weight:	211.72
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Simazine-d ₁₀ is the deuterium labeled Simazine. Simazine is a triazine herbicide widely used in agriculture, pot-plant and tree production. Simazine is phytotoxicity and not highly toxic to soil microflora and algae[1].
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]. Morten T Strandberg, et al. Field Effects of Simazine at Lower Trophic Levels--A Review. *ci Total Environ*. 2002 Sep 16;296(1-3):117-37.

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