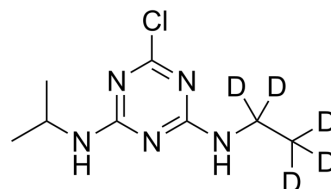


Atrazine-d₅

Cat. No.:	HY-N7091S2		
CAS No.:	163165-75-1		
Molecular Formula:	C ₈ H ₉ D ₅ ClN ₅		
Molecular Weight:	220.71		
Target:	Isotope-Labeled Compounds		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description

Atrazine-d₅ is deuterium labeled Atrazine. Atrazine is principally used for control of certain annual broadleaf and grass weeds. Atrazine inhibits photophosphorylation but typically does not result in lethality or permanent cell damage in the short term^[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]. Solomon KR, et al. Ecological risk assessment of atrazine in North American surface waters. *Environ Toxicol Chem*. 2013 Jan;32(1):10-1.

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