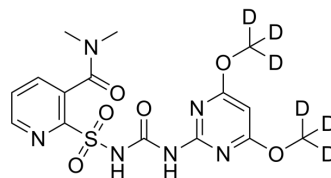


Nicosulfuron-d₆

Cat. No.:	HY-B1876S
CAS No.:	1189419-41-7
Molecular Formula:	C ₁₅ H ₁₂ D ₆ N ₆ O ₆ S
Molecular Weight:	416.44
Target:	Acetolactate Synthase (ALS)
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Nicosulfuron-d ₆ is the deuterium labeled Nicosulfuron[1]. Nicosulfuron is a selective herbicide belonging to the sulfonyleurea family. Nicosulfuron is commonly used as a post-emergence herbicide to protect maize crops from weeds. Nicosulfuron inhibits acetolactate synthase (ALS) enzyme activity[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 Feb;53(2):211-216.
- [2]. Louis Carles, et al. Nicosulfuron Degradation by an Ascomycete Fungus Isolated From Submerged Alnus Leaf Litter. *Front Microbiol*. 2018 Dec 19;9:3167.

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