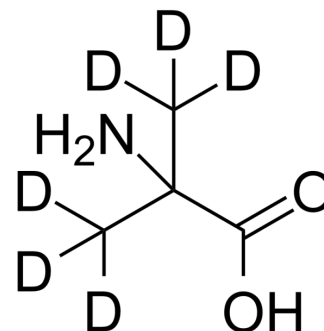


NSC 16590-d6

Cat. No.:	HY-Y0124S
CAS No.:	50348-93-1
Molecular Formula:	C ₄ H ₃ D ₆ NO ₂
Molecular Weight:	109.16
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	NSC 16590-d6 (α,α -Dimethylglycine-d6) is the deuterium labeled NSC 16590. NSC 16590 inhibits the production of endogenous ethylene in the cotyledonary segments of cocklebur.
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]. Shigeru Satoh, et al. α -Aminoisobutyric acid: A probable competitive inhibitor of conversion of 1-aminocyclopropane-1-carboxylic acid to ethylene. *Plant and Cell Physiology*, Volume 21, Issue 6, 1 September 1980, Pages 939-949.

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

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