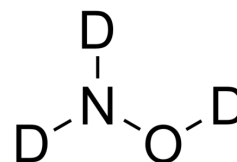


Hydroxylamine-d₃ hydrochloride

Cat. No.:	HY-Y0882S1
CAS No.:	15588-23-5
Molecular Formula:	ClHD ₃ NO
Molecular Weight:	72.51
Target:	Monoamine Oxidase
Pathway:	Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



HCl

BIOLOGICAL ACTIVITY

Description

Hydroxylamine-d₃ (hydrochloride) is the deuterium labeled Hydroxyamine hydrochloride[1]. Hydroxyamine hydrochloride is a selective monoamine oxidase (MAO) inhibitor used for inhibiting of platelet aggregation. Hydroxyamine hydrochloride is an intermediate of organic synthesis[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]. Roh JH, et al. Purification, characterization, and crystallization of monoamine oxidase from *Escherichia coli* K-12. *Biosci Biotechnol Biochem*. 1994 Sep;58(9):1652-6.

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