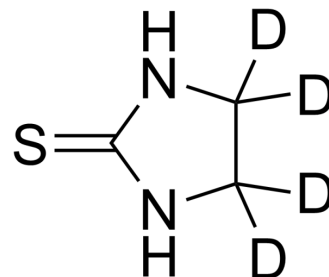


Ethylenethiourea-d4

Cat. No.:	HY-W010593S
CAS No.:	352431-28-8
Molecular Formula:	C ₃ H ₂ D ₄ N ₂ S
Molecular Weight:	106.18
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Ethylenethiourea-d ₄ is the deuterium labeled Ethylenethiourea[1]. Ethylenethiourea is a degradation product of the ethylenebisthiocarbamate group of fungicides. Ethylenethiourea is tumorigenic and teratogenic. Ethylenethiourea is orally active[2][3].
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]. Khera KS. Ethylenethiourea: teratogenicity study in rats and rabbits. *Teratology*. 1973 Jun;7(3):243-52.
- [3]. Graham SL, et al. Effects of one-year administration of ethylenethiourea upon the thyroid of the rat. *J Agric Food Chem*. 1973 May-Jun21(3):324-9.

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

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