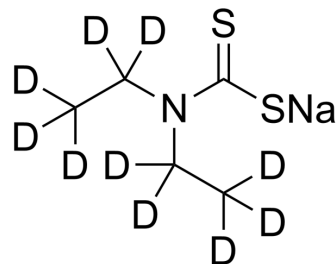


Ditiocarb-d10 sodium

| | |
|---------------------------|---|
| Cat. No.: | HY-B1637S |
| CAS No.: | 1261395-23-6 |
| Molecular Formula: | C ₅ D ₁₀ NNaS ₂ |
| Molecular Weight: | 181.32 |
| Target: | HIV |
| Pathway: | Anti-infection |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

| | |
|--------------------|--|
| Description | Ditiocarb-d ₁₀ (sodium) is the deuterium labeled Ditiocarb sodium[1]. Ditiocarb sodium (Sodium diethyldithiocarbamate) is an accelerator of the rate of copper cementation. Sodium diethyldithiocarbamate reduces the incidence of HIV infection[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]. Abeer A.El-Saharty, et al. Sodium diethyldithiocarbamate as accelerator of the rate of copper cementation. *The Egyptian Journal of Aquatic Research*. 2015 Dec, Volume 41(4):289-293.
- [3]. Hersh EM, et al. Ditiocarb sodium (diethyldithiocarbamate) therapy in patients with symptomatic HIV infection and AIDS. A randomized, double-blind, placebo-controlled, multicenter study. *JAMA*. 1991 Mar 27;265(12):1538-44.

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

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