Ditiocarb

Cat. No.: HY-126363

CAS No.: 147-84-2

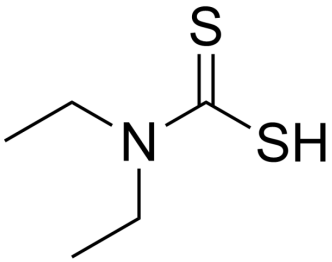
Molecular Formula: $C_5H_{11}NS_2$

Molecular Weight: 149.28

Target: HIV

Pathway: Anti-infection

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Ditiocarb (Diethyldithiocarbamic acid) is an accelerator of the rate of copper cementation. Ditiocarb (Diethyldithiocarbamic acid) reduces the incidence of HIV infection, and also enhances adjuvant immunoresearch of high risk breast cancer[1][2][3].
In Vitro	Ditiocarb reacts with the Cu^{2+} solution giving a complex of copper diethyldithiocarbamate, which enhances the rate of cementation[1]. Ditiocarb is an agent with strong antioxidant capacity and chelating activities[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Ditiocarb improves the depressed immune responses of newborn and aged mice. Ditiocarb prevents cisplatin nephrotoxicity in animals without reducing the antitumor activity. In that AIDS model, Ditiocarb reduces lymphadenopathy and hypergammaglobulinemia, restores immunocompetence, and prolongs survival[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- J Hazard Mater. 2021 Aug 15;416:125764.
- J Agric Food Chem. 2022 Feb 21.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. 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.

[2]. 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.

[3]. Dufour P, et al. Sodium dithiocarb as adjuvant immunotherapy for high risk breast cancer: a randomized study. Biotherapy. 1993;6(1):9-12.

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