Product Data Sheet

Product Name: Ethylenediaminetetraacetic acid sodium hydrate
Cat. No.: GC67534

Chemical Properties

Cas. No.	10378-23-1		
Formula	$C_{10}H_{16}N_2Na_4O_{10}$	M.Wt	416.2
Solubility		Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			

Background

Ethylenediaminetetraacetic acid (EDTA) sodium hydrate is a metal chelators (binds to metal divalent and trivalent cations including calcium), which shows activities of anticoagulant and anti-hypercalcemic. Ethylenediaminetetraacetic acid sodium hydrate decreases the metal ion-catalyzed oxidative damage to proteins, and allows maintenance of reducing environment during protein purification. Ethylenediaminetetraacetic acid sodium hydrate can also decrease the formation of disulfide bonds[1][2][3].

[1]. Chumanov RS, et al. Artifact-inducing enrichment of ethylenediaminetetraacetic acid and ethyleneglycoltetraacetic acid on anion exchange resins. Anal Biochem. 2011 May 1;412(1):34-9.
[2]. Banfi G, et al. The role of ethylenediamine tetraacetic acid (EDTA) as in vitro anticoagulant for diagnostic purposes. Clin Chem Lab Med. 2007;45(5):565-76.
[3]. Ibad A, et al. Chelation therapy in the treatment of cardiovascular diseases. J Clin Lipidol. 2016 Jan-Feb;10(1):58-62.

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