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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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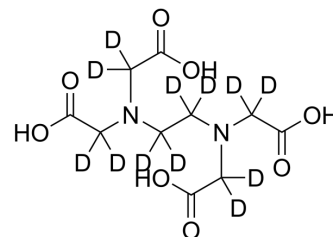
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EDTA-d₁₂

Cat. No.:	HY-Y0682S
CAS No.:	203806-08-0
Molecular Formula:	C ₁₀ H ₄ D ₁₂ N ₂ O ₈
Molecular Weight:	304.32
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	4°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

0.1 M NaOH : 6.67 mg/mL (21.92 mM; ultrasonic and warming and adjust pH to 7 with NaOH)

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.2860 mL	16.4301 mL	32.8601 mL
	5 mM	0.6572 mL	3.2860 mL	6.5720 mL
	10 mM	0.3286 mL	1.6430 mL	3.2860 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

EDTA-d₁₂ is the deuterium labeled Ethylenediaminetetraacetic acid[1]. Ethylenediaminetetraacetic acid (EDTA) is a metal chelators (binds to metal divalent and trivalent cations including calcium), which shows activities of anticoagulant and anti-hypercalcemic. Ethylenediaminetetraacetic acid decreases the metal ion-catalyzed oxidative damage to proteins, and allows maintenance of reducing environment during protein purification. Ethylenediaminetetraacetic acid can also decrease the formation of disulfide bonds[2][3][4].

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.

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- [2]. 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.
- [3]. Banfi G, et al. The role of ethylenediamine tetraacetic acid (EDTA) as in vitro anticoagulant for diagnostic purposes. Clin Chem Lab Med. 200745(5):565-76.
- [4]. Ibad A, et al. Chelation therapy in the treatment of cardiovascular diseases. J Clin Lipidol. 2016 Jan-Feb10(1):58-62.
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Caution: Product has not been fully validated for medical applications. For research use only.

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