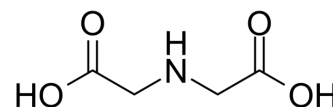


Iminodiacetic acid

Cat. No.:	HY-W012683
CAS No.:	142-73-4
Molecular Formula:	C ₄ H ₇ NO ₄
Molecular Weight:	133.1
Target:	Others
Pathway:	Others
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

H₂O : ≥ 10 mg/mL (75.13 mM)
 DMSO : < 1 mg/mL (ultrasonic;warming;heat to 80°C) (insoluble or slightly soluble)
 * "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		7.5131 mL	37.5657 mL	75.1315 mL
	5 mM		1.5026 mL	7.5131 mL	15.0263 mL
	10 mM		0.7513 mL	3.7566 mL	7.5131 mL

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

BIOLOGICAL ACTIVITY

Description

Iminodiacetic acid (IDA) is a chelating agent that strongly binds transition metals^[1]. Iminodiacetic acid can be used for removal of toxic metal ions from water^[2]. Iminodiacetic acid can serve as a biomarker to potentially predict the severity of ARDS (acute respiratory distress syndrome)^[3].

REFERENCES

- [1]. M D Loberg, et al. Development of new radiopharmaceuticals based on N-substitution of iminodiacetic acid. J Nucl Med. 1976 Jul;17(7):633-8.
- [2]. Misra RK, et al. Iminodiacetic acid functionalized cation exchange resin for adsorptive removal of Cr(VI), Cd(II), Ni(II) and Pb(II) from their aqueous solutions. J Hazard Mater. 2011 Jan 30;185(2-3):1508-12.
- [3]. Shihui Lin, et al. Explore potential plasma biomarkers of acute respiratory distress syndrome (ARDS) using GC-MS metabolomics analysis. Clin Biochem. 2019 Apr;66:49-

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

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