SZABO SCANDIC

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# Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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See the following pages for more information!

## Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

## Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand


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# Iminodiacetic acid

**Cat. No.:** HY-W012683

**CAS No.:** 142-73-4

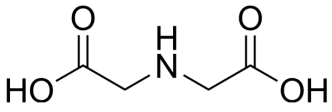
**Molecular Formula:** $C_4H_7NO_4$

**Molecular Weight:** 133.1

**Target:** Biochemical Assay Reagents

**Pathway:** Others

**Storage:** Store at room temperature 3 years
In solvent -80°C 2 years
-20°C 1 year



## SOLVENT & SOLUBILITY

**In Vitro**

$H_2O$ : 5 mg/mL (37.57 mM; Need ultrasonic)
DMSO : < 1 mg/mL (ultrasonic;warming;heat to 80°C) (insoluble or slightly soluble)

| Preparing Stock Solutions | Solvent / Mass / Concentration | 1 mg | 5 mg | 10 mg |
|---|---|---|---|---|
| | 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;66:49-56.

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

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