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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



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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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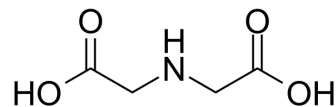
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Iminodiacetic acid

| | | | |
|---------------------------|-----------------------------------------------|-------|----------|
| 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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