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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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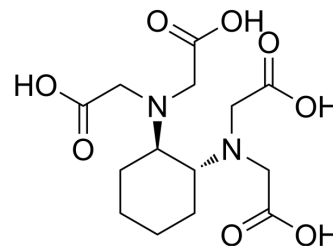
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trans-1,2-Cyclohexanediaminetetraacetic acid

| | | | |
|---------------------------|---|-------|----------|
| Cat. No.: | HY-45290 | | |
| CAS No.: | 13291-61-7 | | |
| Molecular Formula: | C ₁₄ H ₂₂ N ₂ O ₈ | | |
| Molecular Weight: | 346.33 | | |
| Target: | Biochemical Assay Reagents | | |
| 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

DMSO : 16.67 mg/mL (48.13 mM; ultrasonic and warming and heat to 60°C)
 H₂O : < 0.1 mg/mL (ultrasonic;warming;heat to 80°C) (insoluble)

| Preparing Stock Solutions | Solvent Concentration | Mass | | |
|---------------------------|-----------------------|-----------|------------|------------|
| | | 1 mg | 5 mg | 10 mg |
| | 1 mM | 2.8874 mL | 14.4371 mL | 28.8742 mL |
| | 5 mM | 0.5775 mL | 2.8874 mL | 5.7748 mL |
| | 10 mM | 0.2887 mL | 1.4437 mL | 2.8874 mL |

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 1.67 mg/mL (4.82 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

trans-1,2-Cyclohexanediaminetetraacetic acid is a commonly used aminopolycarboxylic acid and a strong chelator of heavy metal ions^{[1][2]}.

REFERENCES

[1]. Wen Chen, et al. Uranium(VI) complexation with trans-1,2-cyclohexanediaminetetraacetic acid in solution: thermodynamic and structural studies, Journal of Coordination Chemistry.

[2]. Zhang T, et al. Chelant extraction of heavy metals from contaminated soils using new selective EDTA derivatives. J Hazard Mater. 2013;262:464-471.

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

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