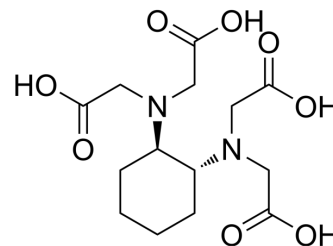


## trans-1,2-Cyclohexanediaminetetraacetic acid

<b>Cat. No.:</b>	HY-45290		
<b>CAS No.:</b>	13291-61-7		
<b>Molecular Formula:</b>	C <sub>14</sub> H <sub>22</sub> N <sub>2</sub> O <sub>8</sub>		
<b>Molecular Weight:</b>	346.33		
<b>Target:</b>	Biochemical Assay Reagents		
<b>Pathway:</b>	Others		
<b>Storage:</b>	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)  
 H<sub>2</sub>O : < 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<sup>[1][2]</sup>.

### 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.

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

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