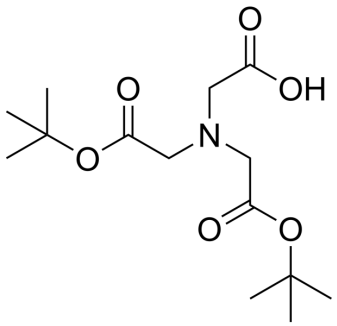
2-(Bis(2-(tert-butoxy)-2-oxoethyl)amino)acetic acid



Cat. No.:	HY-W040686
CAS No.:	171557-31-6
Molecular Formula:	$C_{14}H_{25}NO_6$
Molecular Weight:	303.35
Target:	Amino Acid Derivatives
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 : 100 mg/mL (329.65 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.2965 mL	16.4826 mL	32.9652 mL
	5 mM	0.6593 mL	3.2965 mL	6.5930 mL
	10 mM	0.3297 mL	1.6483 mL	3.2965 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (8.24 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (8.24 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

2-(Bis(2-(tert-butoxy)-2-oxoethyl)amino)acetic acid is a Glycine (HY-Y0966) derivative[1].

In Vitro

Amino acids and amino acid derivatives have been commercially used as ergogenic supplements. They influence the secretion of anabolic hormones, supply of fuel during exercise, mental performance during stress related tasks and prevent exercise induced muscle damage. They are recognized to be beneficial as ergogenic dietary substances[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Luckose F, et al. Effects of amino acid derivatives on physical, mental, and physiological activities. Crit Rev Food Sci Nutr. 2015;55(13):1793-1144.

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