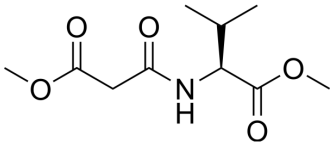
(S)-ZLc002

Cat. No.:	HY-147306A
CAS No.:	308277-46-5
Molecular Formula:	$C_{10}H_{17}NO_5$
Molecular Weight:	231.25
Target:	NO Synthase
Pathway:	Immunology/Inflammation
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 (432.43 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	4.3243 mL	21.6216 mL	43.2432 mL
	5 mM	0.8649 mL	4.3243 mL	8.6486 mL
	10 mM	0.4324 mL	2.1622 mL	4.3243 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (10.81 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (10.81 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

(S)-ZLc002 is a S-enantiomer of ZLc-002. ZLc-002 is a selective inhibitor of nNOS-Capon coupling. ZLc-002 suppresses inflammatory nociception and chemotherapy-induced neuropathic pain[1].

REFERENCES

[1]. Li-Juan Zhu, et al. CAPON-nNOS coupling can serve as a target for developing new anxiolytics. Nat Med. 2014 Sep;20(9):1050-4.

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

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