DP-b99

Cat. No.: HY-121872

CAS No.: 222315-88-0

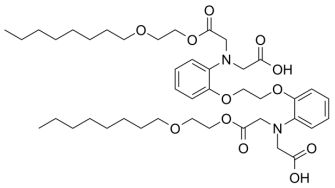
Molecular Formula: $C_{42}H_{64}N_2O_{12}$

Molecular Weight: 788.96

Target: Others

Pathway: Others

Storage: 4°C, protect from light
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (126.75 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	1.2675 mL	6.3375 mL	12.6749 mL
	5 mM	0.2535 mL	1.2675 mL	2.5350 mL
	10 mM	0.1267 mL	0.6337 mL	1.2675 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 (3.17 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (3.17 mM); Suspended solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (3.17 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

DP-b99 is a chelator of zinc and calcium ions that acts selectively within cell membranes and has neuroprotective properties in animal models of stroke.

REFERENCES

[1]. Kalendarev T, Zupkovitz G, Ioffe V. The unusual gradient elution for reversed phase HPLC of a strong chelator as an active drug substance. J Pharm Biomed Anal. 2001;24(5-6):967-975.

[2]. Diener HC, Schneider D, Lampl Y, Bornstein NM, Kozak A, Rosenberg G. DP-b99, a membrane-activated metal ion chelator, as neuroprotective therapy in ischemic stroke. Stroke. 2008;39(6):1774-1778.

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