4-Di-10-ASP

Cat. No.: HY-D1630

CAS No.: 95378-73-7

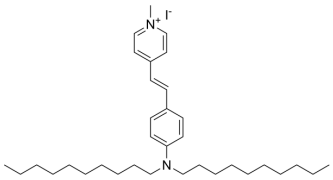
Molecular Formula: $C_{34}H_{55}IN_2$

Molecular Weight: 618.72

Target: Fluorescent Dye

Pathway: Others

Storage: 4°C, sealed storage, away from moisture and light
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 33.33 mg/mL (53.87 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	1.6162 mL	8.0812 mL	16.1624 mL
	5 mM	0.3232 mL	1.6162 mL	3.2325 mL
	10 mM	0.1616 mL	0.8081 mL	1.6162 mL

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

BIOLOGICAL ACTIVITY

Description

4-Di-10-ASP is a fluorescent lipophilic tracer (Excitation 485 nm; Emission 620 nm). 4-Di-10-ASP can be used to stain phospholipid membranes in a specific manner[1][2].

In Vitro

Guidelines (Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs).
1. 4-Di-10-ASP (1 μM), DOPC (HY-113424A) (10 mM), and DOPG (HY-142980) (1 mM) is dissolved in methanol/chloroform (25 L, 1:2 v/v).
2. The solution is allowed to dry overnight under vacuum to obtain lamellar lipid films, which in turn are hydrated with the transcription/translation solution (25 L) for three hours at 37□.
3. An aliquot (10 L) of the solution thus prepared is placed on a glass slide and sealed by a cover glass.
4. The sample is immediately observed with a confocal laser-scanning microscope, an argon laser (488 nm) is employed to excite the 4-Di-10-ASP[2].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Z J Huang, et al. Partition coefficients of fluorescent probes with phospholipid membranes. Biochem Biophys Res Commun. 1991 Nov 27;181(1):166-71.

[2]. Shin-ichiro M Nomura, et al. Gene expression within cell-sized lipid vesicles. Chembiochem. 2003 Nov 7;4(11):1172-5.

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