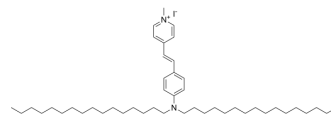


## 4-Di-16-ASP

<b>Cat. No.:</b>	HY-133876
<b>CAS No.:</b>	114041-00-8
<b>Molecular Formula:</b>	C <sub>46</sub> H <sub>79</sub> IN <sub>2</sub>
<b>Molecular Weight:</b>	787.04
<b>Target:</b>	Fluorescent Dye
<b>Pathway:</b>	Others
<b>Storage:</b>	-20°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 : 2 mg/mL (2.54 mM; ultrasonic and warming and heat to 60°C)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.2706 mL	6.3529 mL	12.7058 mL
5 mM	---	---	---
10 mM	---	---	---

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

### BIOLOGICAL ACTIVITY

#### Description

4-Di-16-ASP is a green fluorescent membrane dye. 4-Di-16-ASP is a lipophilic aminostyryl probe with a broad emission spectrum (can be detected with green, orange or even red filters). It is commonly used for neuronal membrane tracing (it diffuses faster than DiO)<sup>[1]</sup>.

### REFERENCES

[1]. Lucas McDonald, et al. An NIR Emitting Styryl Dye with Large Stokes Shift to Enable co-Staining Study on Zebrafish Neuromast Hair Cells. *Bioorg Chem.* 2019 Aug;89:103040.

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

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