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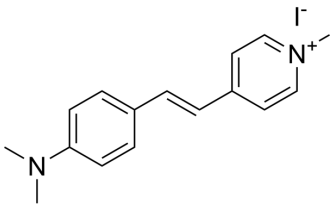
4-Di-1-ASP

Cat. No.:	HY-W094758A
CAS No.:	959-81-9
Molecular Formula:	$C_{16}H_{19}IN_2$
Molecular Weight:	366.24
Target:	Fluorescent Dye
Pathway:	Others
Storage:	-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)



BIOLOGICAL ACTIVITY

Description	4-Di-1-ASP is a styryl dye used to stain glioma cells in living brain tissue for analysis of cell structure, viability, proliferation and endocytosis, cytokinesis and phagocytosis, as well as for observation of mitochondrial structures in living cells. 4-Di-1-ASP fluoresces green when imaged microscopically (λ_{ex} /λ_{em} = 475/606 nm) [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]. 1.Dissolve the dye in water and configure a mother liquor at a concentration of 2 mM. 2.Place the prepared cell sections in an incubator at 35°C, add the prepared dye solution to a final concentration of 1 μM and incubate with the stain for 10 min. 3.The prepared stained cell sections are placed on a microscope slide, cover with a coverslip and observe using a fluorescent confocal microscope with a maximum excitation wavelength of 475 nm and a maximum emission wavelength of 606 nm. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Lilia Y Kucheryavykh, et al. Visualization of implanted GL261 glioma cells in living mouse brain slices using fluorescent 4-(4-(dimethylamino)-styryl)-N-methylpyridinium iodide (ASP+). Biotechniques. 2012 Nov;53(5):305-9.

[2]. Jensen J H Wong, et al. Simultaneous High-Throughput Conformational and Colloidal Stability Screening Using a Fluorescent Molecular Rotor Dye, 4-(4-(Dimethylamino)styryl)-N-Methylpyridinium Iodide (DASPMI). J Biomol Screen. 2016 Sep;21(8):842-50.

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