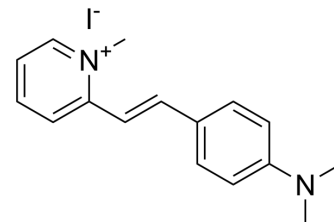


2-Di-1-ASP

Cat. No.:	HY-135009
CAS No.:	2156-29-8
Molecular Formula:	C ₁₆ H ₁₉ IN ₂
Molecular Weight:	366.24
Target:	G-quadruplex
Pathway:	Cell Cycle/DNA Damage
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 : 25 mg/mL (68.26 mM; Need ultrasonic)																					
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent</th> <th rowspan="2">Mass</th> <th colspan="3">Concentration</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Preparing Stock Solutions</td> <td>1 mM</td> <td>2.7304 mL</td> <td>13.6523 mL</td> <td>27.3045 mL</td> </tr> <tr> <td>5 mM</td> <td>0.5461 mL</td> <td>2.7304 mL</td> <td>5.4609 mL</td> </tr> <tr> <td>10 mM</td> <td>0.2730 mL</td> <td>1.3652 mL</td> <td>2.7304 mL</td> </tr> </tbody> </table>	Solvent	Mass	Concentration			1 mg	5 mg	10 mg	Preparing Stock Solutions	1 mM	2.7304 mL	13.6523 mL	27.3045 mL	5 mM	0.5461 mL	2.7304 mL	5.4609 mL	10 mM	0.2730 mL	1.3652 mL	2.7304 mL
Solvent	Mass			Concentration																		
		1 mg	5 mg	10 mg																		
Preparing Stock Solutions	1 mM	2.7304 mL	13.6523 mL	27.3045 mL																		
	5 mM	0.5461 mL	2.7304 mL	5.4609 mL																		
	10 mM	0.2730 mL	1.3652 mL	2.7304 mL																		
	Please refer to the solubility information to select the appropriate solvent.																					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (5.68 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (5.68 mM); Clear solution 																					

BIOLOGICAL ACTIVITY

Description	2-Di-1-ASP (DASPI; Compound 18a) is a mono-stryryl dye, and widely used as mitochondrial stain and groove-binding fluorescent probes for double-stranded DNA. 2-Di-1-ASP is selective for G-quadruplex (G4) and double-stranded DNA ^[1] .
In Vitro	2-Di-1-ASP (Compound 18a) displays significant fluorescence enhancements in the presence of G-quadruplex (G4) structures (up to 300-fold), and good selectivity with respect to double-stranded DNA. 2-Di-1-ASP shows fluorimetric selectivity for parallel G4-DNA forms (c-kit2, c-kit87up, c-myc) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA