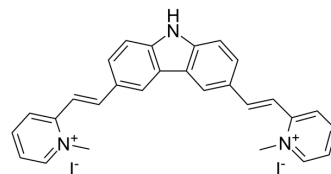


BMVC2

Cat. No.:	HY-135776
CAS No.:	850559-51-2
Molecular Formula:	C ₂₈ H ₂₅ I ₂ N ₃
Molecular Weight:	657.33
Target:	G-quadruplex
Pathway:	Cell Cycle/DNA Damage
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 16.67 mg/mL (25.36 mM; Need ultrasonic)			
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg
				5 mg
				10 mg
				10 mM
1 mM	1.5213 mL	7.6065 mL	15.2131 mL	
5 mM	0.3043 mL	1.5213 mL	3.0426 mL	
10 mM	0.1521 mL	0.7607 mL	1.5213 mL	
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.67 mg/mL (2.54 mM); Clear solution			

BIOLOGICAL ACTIVITY

Description	BMVC2 (o-BMVC) is a bisubstituted carbazole derivative of BMVC. BMVC2 is a G-quadruplex (G4) stabilizer ^[1] .
IC ₅₀ & Target	G-quadruplex ^[1]
In Vitro	BMVC2 by monitoring the disappearance of the 291 nm CD signals of d[AG ₃ (T ₂ AG ₃) ₃] (HT22) after adding Cu ²⁺ is screened, a longer unfolding time would dictate a better G4 stabilizer. The unfolding curve of HT22 in the presence of BMVC2 can be fitted by using two time constants of 133.7 s (29%) and 2816 s (71%), which are similar to the unfolding parameters of BMVC [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.

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