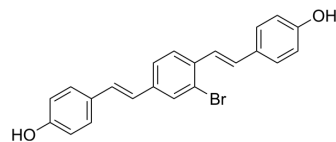


K114

Cat. No.:	HY-103470
CAS No.:	872201-12-2
Molecular Formula:	C ₂₂ H ₁₇ BrO ₂
Molecular Weight:	393.27
Target:	Fluorescent Dye
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (254.28 mM; Need ultrasonic)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.5428 mL	12.7139 mL	25.4278 mL
	5 mM	0.5086 mL	2.5428 mL	5.0856 mL
	10 mM	0.2543 mL	1.2714 mL	2.5428 mL

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

BIOLOGICAL ACTIVITY

Description

K114, a fluorescent Congo Red analogue, binds tightly to amyloid fibrils with an EC₅₀ of 20-30 nM^[1]. K114 is an efficient detector of semen-derived enhancer of virus infection (SEVI)^[2].

In Vitro

K114's unusually low buffer fluorescence is due to self-quenching in sedimentable aggregates or micelles which upon interacting with amyloid fibrils undergo an enhancement in fluorescence intensity and shifts in the excitation and emission spectra^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. LeVine H 3rd, et al. Mechanism of A beta(1-40) fibril-induced fluorescence of (trans,trans)-1-bromo-2,5-bis(4-hydroxystyryl)benzene (K114). *Biochemistry*. 2005 Dec 6;44(48):15937-43.

[2]. Selmani V, et al. K114 (trans, trans)-bromo-2,5-bis(4-hydroxystyryl)benzene is an efficient detector of cationic amyloid fibrils. *Protein Sci*. 2015 Mar;24(3):420-5.

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

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