Product Data Sheet

Product Name: K 114
Cat. No.: GC16885

Chemical Properties

Cas. No.	872201-12-2		
Chemical Name	4,4'-((1E,1'E)-(2-bromo-1,4-phenylene)bis(ethene-2,1-diyl))diphenol		
SMILES	BrC1=CC(/C=C/C(C=C2)=CC=C2O)=CC=C1/C=C/C(C=C3)=CC=C3O		
Formula	$C_{22}H_{17}BrO_2$	M.Wt	393.27
Solubility	<39.33mg/ml in DMSO; <19.66mg/ml in ethanol	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	K 114		

Background

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].

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].

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.

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