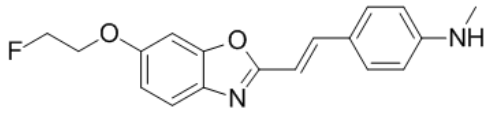
Product Data Sheet

Product Name: BF-168
Cat. No.: GC33750

Chemical Properties

Cas. No.	634911-47-0		
SMILES	CNC1=CC=C(/C=C/C2=NC3=CC=C(OCCF)C=C3O2)C=C1		
Formula	$C_{18}H_{17}FN_2O_2$	M.Wt	312.34
Solubility	Soluble in DMSO	Storage	Store at -20°C,unstable in solution, ready to use.
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C 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			



Background

BF-168, a candidate probe for PET, is found to specifically recognize both neuritic and diffuse plaques, with a Ki of 6.4 nM for Aβ1-42.

BF-168, a styrylbenzoxazole derivative, is a potent agent that selectively recognizes SPs and NFTs in AD brain. BF-168 is a candidate probe for PET and is found to specifically recognize both neuritic and diffuse plaques, with a Ki of 6.4 nM for Aβ1-42[1].

Caution: Product has not been fully validated for medical applications. For research use only.
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Intravenous injection of BF-168 in PS1/APP and APP23 transgenic mice result in specific in vivo labeling to both compact and diffuse amyloid deposits in the brain. In addition, 18F-radiolabeled BF-168 demonstrates abundant initial brain uptake (3.9% injected dose/gm at 2 min after injection) and fast clearance (t1/2=24.7 min) after intravenous administration in normal mice. Furthermore, autoradiograms of brain sections from APP23 transgenic mice at 180 min after intravenous injection of [18F]BF-168 shows selective labeling of brain amyloid deposits with little nonspecific binding[1].

[1]. Okamura N, et al. Styrylbenzoxazole derivatives for in vivo imaging of amyloid plaques in the brain. J Neurosci. 2004 Mar 10;24(10):2535-41.

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