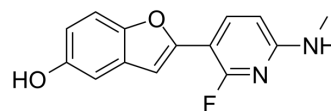


AZD4694

Cat. No.:	HY-113938		
CAS No.:	1054629-49-0		
Molecular Formula:	C ₁₄ H ₁₁ FN ₂ O ₂		
Molecular Weight:	258.25		
Target:	Amyloid- β		
Pathway:	Neuronal Signaling		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (387.22 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	3.8722 mL	19.3611 mL	38.7222 mL
		5 mM	0.7744 mL	3.8722 mL	7.7444 mL
	10 mM	0.3872 mL	1.9361 mL	3.8722 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: \geq 2.5 mg/mL (9.68 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: \geq 2.5 mg/mL (9.68 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	AZD4694 (NAV4694), a fluorinated β -amyloid (A β) plaque neuroimaging PET radioligand, shows high affinity for A β fibrils ($K_d = 2.3$ nM) ^[1] .
IC ₅₀ & Target	Kd: 2.3 nM (A β)
In Vivo	Administration of unlabeled AZD4694 to rat showed that it has a pharmacokinetic profile consistent with good PET radioligands, it quickly entered and rapidly cleared from normal rat brain tissue ^[1] . AZD4694 (4 mL/kg; intravenous injection) inhibits [³ H]AZD2184 binding (1 nM) in a concentration-dependent manner, with a K_i of 23.1 nM, in postmortem brain sections from AD patients ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male Sprague–Dawley rats (275-300 g) ^[1]
Dosage:	4 mL/kg
Administration:	I.v.
Result:	Inhibited [³ H]AZD2184 binding in a concentration-dependent manner, with a K _i of 23.1 nM, in postmortem brain sections from AD patients.

REFERENCES

[1]. Juréus A, Swahn BM, Sandell J, et al. Characterization of AZD4694, a novel fluorinated Abeta plaque neuroimaging PET radioligand. J Neurochem. 2010;114(3):784-794.

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

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