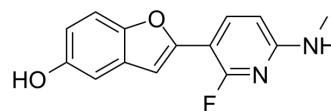


AZD4694

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:	Please store the product under the recommended conditions in the Certificate of Analysis.



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] .								
IC₅₀ & Target	K _d : 2.3 nM (A β)								
In Vivo	<p>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].</p> <p>AZD4694 (4 mL/kg; intravenous injection) inhibits [³H]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].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1"> <tr> <td>Animal Model:</td> <td>Male Sprague–Dawley rats (275-300 g)^[1]</td> </tr> <tr> <td>Dosage:</td> <td>4 mL/kg</td> </tr> <tr> <td>Administration:</td> <td>I.v.</td> </tr> <tr> <td>Result:</td> <td>Inhibited [³H]AZD2184 binding in a concentration-dependent manner, with a K_i of 23.1 nM, in postmortem brain sections from AD patients.</td> </tr> </table>	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.
Animal Model:	Male Sprague–Dawley rats (275-300 g) ^[1]								
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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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