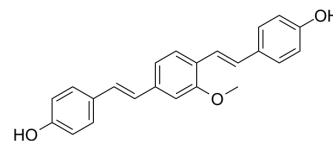


Methoxy-X04

Cat. No.:	HY-103240
CAS No.:	863918-78-9
Molecular Formula:	C ₂₃ H ₂₀ O ₃
Molecular Weight:	344
Target:	Amyloid- β
Pathway:	Neuronal Signaling
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 25 mg/mL (72.67 mM; ultrasonic and warming and heat to 80°C)					
	Preparing Stock Solutions	<div><div>Solvent</div><div>Concentration</div></div>	Mass	1 mg	5 mg	10 mg
		1 mM		2.9070 mL	14.5349 mL	29.0698 mL
		5 mM		0.5814 mL	2.9070 mL	5.8140 mL
		10 mM		0.2907 mL	1.4535 mL	2.9070 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1.25 mg/mL (3.63 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 1.25 mg/mL (3.63 mM); Suspended solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	Methoxy-X04 is a fluorescent dye that crosses the blood-brain barrier and selectively binds to beta-pleated sheets found in dense core amyloid A β plaques. Methoxy-X04 retains in vitro binding affinity for amyloid b (Ab) fibrils (K_i = 26.8 nM). Methoxy-X04 is fluorescent and stains plaques, tangles, and cerebrovascular amyloid in postmortem sections of AD brain with good specificity ^{[1][2]} .
In Vivo	Methoxy-X04 (5-10 mg/kg, i.p., once time) differentiates individual plaques in PS1/APP mice within 30 to 60 min ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Klunk WE, et al. Imaging Abeta plaques in living transgenic mice with multiphoton microscopy and methoxy-X04, a systemically administered Congo red derivative. J Neuropathol Exp Neurol. 2002 Sep;61(9):797-805.

[2]. Bisht K, et al. Correlative Light and Electron Microscopy to Study Microglial Interactions with β -Amyloid Plaques. J Vis Exp. 2016 Jun 1;(112):54060.

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

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