



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

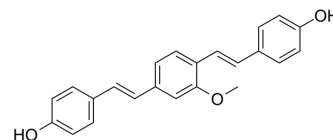
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Methoxy-X04

Cat. No.:	HY-103240
CAS No.:	863918-78-9
Molecular Formula:	C ₂₃ H ₂₀ O ₃
Molecular Weight:	344.4
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 (72.59 mM; ultrasonic and warming and heat to 80°C)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		2.9036 mL	14.5180 mL	29.0360 mL
		5 mM		0.5807 mL	2.9036 mL	5.8072 mL
		10 mM		0.2904 mL	1.4518 mL	2.9036 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.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA