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DATASHEET

Methoxy-X04

Product overview

Name	Methoxy-X04
Cat No	HB5252
Biological action	Dyes & stains
Purity	>98%
Description	Fluorescent amyloid β stain. BBB permeable.

Biological Data

Biological description Methoxy-X04 is a blood-brain barrier (BBB) permeable fluorescent amyloid β marker which specifically binds to amyloid deposits in postmortem AD brain sections.

It can be used to stain amyloid beta plaques, tangles and cerebrovascular amyloid.

It shows in vitro binding affinity of Amyloid beta fibrils ($K_i = 26.87$ nM). The compound is active *in vivo*

Excitation wavelength: 370nm

Emission wavelength: 452nm

Solubility & Handling

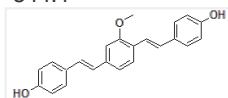
Storage instructions	+4 °C. Protect from light.
Solubility overview	Soluble in DMSO (100 mM), and in ethanol (20 mM). Protect from light.
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

Chemical Data

Chemical name 4,4'-[(2-methoxy-1,4-phenylene)di-(1E)-2,1-ethenediyl]bisphenol

Molecular Weight 344.4

Chemical structure



Molecular Formula C₂₃H₂₀O₃

CAS Number 863918-78-9

PubChem identifier 16049314

SMILES COC1=C(C=CC(=C1)/C=C/C2=CC=C(C=C2)O)/C=C/C3=CC=C(C=C3)O

Source Synthetic

InChi InChI=1S/C23H20O3/c1-26-23-16-19(3-2-17-6-12-21(24)13-7-17)5-11-20(23)10-4-18-8-14-22(25)15-9-18/h2-16,24-25H,1H3/b3-2+,10-4+

InChiKey FGYNZFHVGOFKMD-KHVHPYDTSA-N

Appearance Yellow solid

References

Fibrillar amyloid plaque formation precedes microglial activation

Jung CK *et al* (2015) PLoS One 10(3)

PubMedID [25799372](#)

Imaging Abeta plaques in living transgenic mice with multiphoton microscopy and methoxy-X04, a systemically administered Congo red derivative

Klunk WE *et al* (2002) J Neuropathol Exp Neurol 61(9)

PubMedID [12230326](#)

A Study of Amyloid-beta and Phosphotau in Plaques and Neurons in the Hippocampus of Alzheimer's Disease Patients

Furcila D *et al* (2018) J Alzheimers Dis 64(2)

PubMedID [29914033](#)
