
Methoxy-X04

产品编号: D50805

CAS: 863918-78-9

分子式: C₂₃H₂₀O₃

纯度: ≥98%

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+

InChi Key: FGYNZFHVGOFCMD-KHVHPYDTSA-N

Smiles: COC1C=C(/C=C/C2C=CC(O)=CC=2)C=CC=1/C=C/C1C=CC(O)=CC=1

外观: 固体粉末

溶解性: DMSO up to 100 mM

保存条件: Store in dry, dark place for one year.

产品介绍: Methoxy-X04 is a fluorescent amyloid β (A β) probe for the detection and quantification of plaques, tangles and cerebrovascular amyloid with good specificity. It is a derivative of Congo red and Chrysamine-G that contains no acid groups and is therefore smaller and much more lipophilic than Congo red or Chrysamine-G. Methoxy-X04 retains in vitro binding affinity for amyloid beta (A β) fibrils (K_i = 26.8 nM) very similar to that of Chrysamine-G. Using multiphoton microscopy to obtain high-resolution (1 microm) fluorescent images from the brains of living PSI/APP mice, individual plaques could be distinguished within 30 to 60 min after a single IV injection or a single IP injection of Methoxy-X04.