

FUJIFILM**Wako**

Code No. 025-18801 (1 mg)

BF-188

BF-188 is a fluorescence probe for amyloid- β ($A\beta$) plaques and neurofibrillary tangles (NFTs).

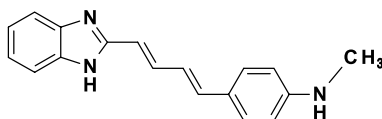
BF-188 is clearly stained $A\beta$ plaques and NFTs with different fluorescence spectra and is available to be used for multispectral imaging.

Both $A\beta$ plaques and NFTs is visualized clearly under a blue-violet filter (400-440 nm) by BF-188 staining. In contrast, $A\beta$ plaques and NFTs are detected selectively under violet (380-420 nm) and green filters (510-560 nm) by BF-188 staining, respectively.

This product is for laboratory use only ; use in any such application is the responsibility of users.

Appearance : Pale yellow ~ Brown, Crystalline powder ~ Powder

Structure :



Molecular formula : $C_{18}H_{17}N_3$

Molecular weight : 275.35

Solubility : Methanol

Ex/Em : 400-440 nm/ typically 520 and 600 nm

Storage : Store away from sunlight at -20°C , under inert gas.

Reference

1) Harada, R. *et al.* : *Mol. Imaging Biol.*, **16**, 19 (2014).

Procedure

1. Deparaffinize the section on a slide glass plate.
2. Wash the section with MQ for 10 min.
3. Blanch the section with 0.25% potassium permanganate solution for 20 min.
4. Wash the section twice with PBS for 2 min.
5. Immerse the section with 0.1% potassium metabisulfite and 0.15% oxalic acid for 5 sec.
6. Wash the section three times with PBS for 2 min.
7. Immerse the quenched tissue section with 100 $\mu\text{mol/L}$ BF-188 solution containing 50% ethanol for 10 min.
8. Dip the section 5 times with water for a few sec.
9. Observe the section with fluorescence microscope.

操作方法 :

1. パラフィン切片を脱パラフィン処理します。
2. 超純水で10分間洗浄します。
3. 0.25%過マンガン酸カリウム溶液で20分間漂白します。
4. PBSで2分間、2回洗浄します。
5. 0.1%メタ重亜硫酸カリウム-0.15%シュウ酸溶液に5秒間浸します。
6. PBSで2分間、3回洗浄します。
7. 50%エタノールで調製した100 $\mu\text{mol/L}$ BF-188溶液に10分間浸します。
8. 水に数秒間、5回浸します。
9. 蛍光顕微鏡で観察します。

FUJIFILM Wako Pure Chemical Corporation

1-2, Doshomachi 3-Chome, Chuo-Ku, Osaka 540-8605, Japan
Telephone : +81-6-6203-3741
Facsimile : +81-6-6201-5964
<http://fwk.fujifilm.co.jp>

FUJIFILM Wako Chemicals U.S.A. Corporation

1600 Bellwood Road
Richmond, VA 23237
U.S.A.
Telephone : +1-804-271-7677
Facsimile : +1-804-271-7791
<http://www.wakousa.com>

FUJIFILM Wako Chemicals Europe GmbH

Fuggerstrasse 12
D-41468 Neuss
Germany
Telephone : +49-2131-311-0
Facsimile : +49-2131-311100
<http://www.wako-chemicals.de>