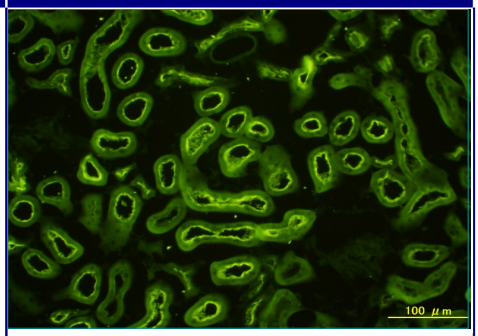
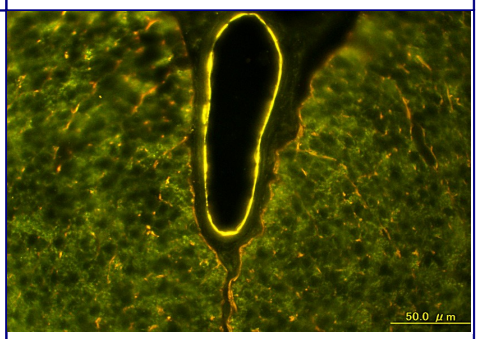
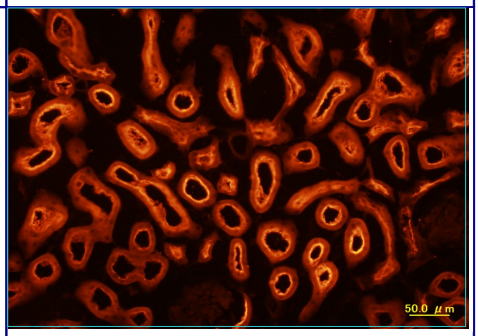
FT-DU7710

Fluolid-W Protein Labeling Kit

Labeling of protein or antibody (1.0 mg)

Product Description

Product name cat.number	MW ($g \cdot mol^{-1}$)	$\lambda_{exc}\backslash\lambda_{em}$ max. (nm)	mol. abs. ($M^{-1}cm^{-1}$)	
Green 520 FP-DU7770, 3 tests	510	395 / 522	10 000	
Yellow 540 FP-DU7740, 3 tests	540	410 / 541	12 000	
Orange 600 FP-DU7710, 3 tests	570	440 / 602	15 000	

Storage: The fluorescence unit of Fluolid has high stability under various conditions. To keep the activity of the succinimidyl ester group, please store at 2-8 °C

Characteristics

1. High quantum yield in the solid state
2. No photobleach
3. High stability for light, heat and pH
4. Labeling rate is higher than that of traditional dye

FT-DU7710

Directions for use

Contents

Fluolid-W succinimidyl ester in DMSO 240 µl x 3
0.2 M Sodium bicarbonate buffer (pH8.3) 480 µl x 3

Protocol

The kits have been optimized for labeling 1.0 mg of an IgG antibody. Other proteins can also be used at the same protocol. However, in the case of under- or over- labeling, it is necessary to investigate labeling condition.
It may be usable under the low DMSO concentration. In the case of the precipitations, they typically have no effect on the reaction. However, adjustments of the protocol may be necessary for yield loss.
Take care of yield loss, when the conditions of the protocol are changed. In this instance, please investigate the conditions.

(1) Preparation of Protein Solution

Dissolve the 1.0 mg protein in 400 µl sodium bicarbonate buffer (0.2 M, pH8.3).

(2) Reaction Mixture (Labeling Reaction)

Mix the 200 µl Fluolid-W succinimidyl ester/DMSO solution with the protein solution prepared in Section (1). The reaction mixture is stirred slowly for 1-2 hours at room temperature. In the case of the precipitations, they have no effect on the reaction.

(3) Purification of Labeled Protein

The labeled protein can be purified from the reaction mixture by size-exclusion purification.
The following purification method can be used.

- GE healthcare/amershambioscience Sephadex series (G-25, G-50, etc.)
- Bio-Rad Bio Gel P Series (P-6, P-30, etc.)
- Millipore Amicon series etc.

If there is an unknown point, please contact us in the following.

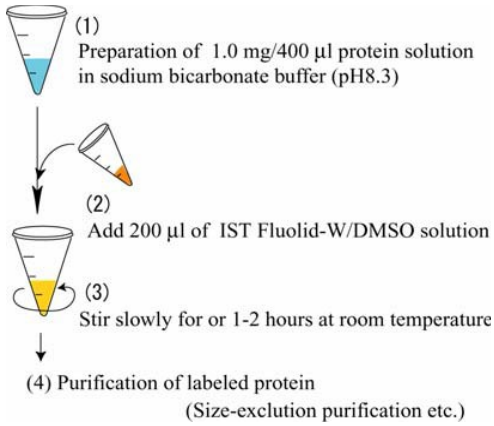


Figure 1. Protocol for Protein Labeling with Protein Labeling kits.

Related / associated products and documents

See BioSciences Innovations catalogue and e-search tool.

- Fluolid NHS-ester
- Fluolid Oligonucleotide Amine Labeling Kit

Ordering information

Catalog size quantities and prices may be found at www.interchim.com/
Please inquire for higher quantities (availability, shipment conditions).

For any information, please ask : FluoProbes® / Interchim; Hotline : +33(0)4 70 03 73 06

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