

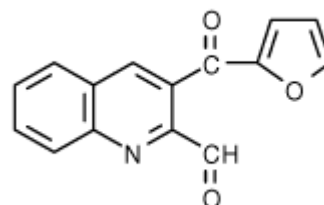
FT-86524A

FQ derivatization reagent

Neutral fluorogenic probe for amines for the picomolar assay of proteins by capillary electrophoresis

Product Description

Name :	FQ derivatization reagent 3-(2-furoyl)quinoline-2-carboxaldehyde
Catalog Number :	FP-86524A 25 mg
Structure :	C ₁₅ H ₉ NO ₃
Molecular Weight :	MW= 251,24
Solubility:	EtOH
Absorption / Emission :	λ_{exc} / λ_{em} (after derivatization) = 486/591 nm



Storage: +4°C (-20°C for stock solution). Protect from light and moisture

Introduction

The FQ derivatization reagent forms conjugates with primary amines that can be analyzed by capillary electroresis or chromatographic methods.

Directions for use

Storage

Prepare a stock solution at 10 mM by dissolving the reagent in 10 ml methanol. The stock solutions of FQ should be stored at -20°C in a capped vial. The stock solution must be thoroughly thawed and mixed before use. A workworking supply of solution may be kept at room temperature and replaced daily.

Guidelines for use

- Lyse roughly 10⁶ cells by sonication
- Label with 100 nmol of FQ in the presence of 2.5 mM potassium cyanide at 65 °C for 5 min
- Dilute 50-fold the FQ-labeled cell extract in 10 mM phosphate buffer, pH 7, and stored on ice
- Prepare capillary electrophoresis instrument
- Read sample stream with an argon-ion laser beam, $\lambda = 488$ nm

Other protocol may be found in the literature.

References

- Michels D. *et al.*, Fully Automated Two-dimensional Capillary Electrophoresis for High Sensitivity Protein Analysis, *Mol. Cell. Proteomics*, 1: 69 - 74 (2002) [Article](#)
- Müller W. *et al.*, A Strategy for the Chemical Synthesis of Nanostructures, *Science*, 268: 272 - 273 (1995) [Abstract](#)

Technical and scientific information

Related / associated products and documents

See [BioSciences Innovations catalogue](#) and [e-search tool](#).

- Fluorescamine, [FP-12631E](#)
- OPA (Ellman's reagent), [UP02727A](#)
- NDA, [FP-46870A](#)
- NBD-Cl, [FP-46540A](#)
- CPM, [FP-46714A](#)
- DACM, [FP-M1741A](#)
- Monobromobimane, [FP-225293](#)

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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