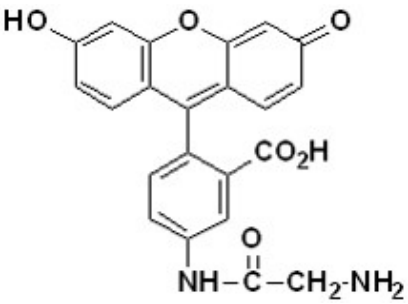
FT-98959A

5-(Aminoacetamido)Fluorescein

Fluorescent derivatization probe for carboxylic acids and glutamine such as aldehyde/Ketone

Product Description

Name :	**5-(Aminoacetamido)Fluorescein (5-AAF)** Fluoresceinyl Glycine Amide Acetamide, 2-amino-(N-3',6'-dihydroxy-3-oxospiro[isobenzofuran-1(3H),9'[9H]xanthen]-5-yl)-
Catalog Number :	FP-989599 10 mg FP-98959A 100 mg
CAS :	136091-82-2
Structure :	$C_{22}H_{16}N_2O_6$
Molecular Weight :	MW= 404,38
Solubility:	DMSO, DMF, water and CH_3OH
Absorption / Emission :	$\lambda_{exc}\backslash\lambda_{em}$ (MeOH) = 492/514nm



Storage: Store at room temperature. Protect from light and moisture

Introduction

This primary aliphatic amine is fluorescent labeling reagent for carbonyl compounds such as aldehyde/Ketone. The formed Schiff base can be reduced to a stable amine derivative by sodium borohydride ($NaBH_4$) or sodium cyanoborohydride ($NaCNH_3$) to form new probes. Carboxylic acids of proteins and other water-soluble biopolymers can be coupled to this molecule in aqueous solution using water-soluble carbodiimides such as EDAC (520059). The glycine may be the better amine probe for direct carbodiimide-mediated coupling, since it is likely to remain unprotonated at a lower pH than other aliphatic amines.

Technical and scientific information

Specifications

Appearance	Orange solid
HPLC Purity	>90%
NMR (d_6-DMSO)	Conforms to structure
TLC	>90%
Absorption (λ_{Ex}) Buffer pH 9	492 ± 3
Emission (λ_{Em}) Buffer pH 9	514 ± 4
Extinction coefficient (Exc. Coe.)	82 000 ± 6 000 $cm^{-1}.M^{-1}$

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Guidelines for use

Protocol may be found in the literature.

References

- **Garrett Q.** *et al.*, Carboxymethylcellulose Binds to Human Corneal Epithelial Cells and Is a Modulator of Corneal Epithelial Wound Healing, *Invest. Ophthalmol. Vis*. Sci., 48: 1559 - 1567 (2007) Article
- **Kiselev MV**, *et al*. Determination of cyclosporin A in 20% ethanol by a magnetic beads-based immunofluorescence assay." *Anal Biochem* 269, 393-398 (1999)
- **Paprica PA**, *et al*. Preparation of novel cyclosporin A derivatives." *Bioconjug Chem* 3, 32-36 (1992)
- **Santi D.** *et al*., Predictable and tunable half-life extension of therapeutic agents by controlled chemical release from macromolecular conjugates, *PNAS*, 109: 6211 - 6216 (2012) Article
- **Wilson-Stanford S.** *et al*., Oxidation of Lanthionines Renders the Lantibiotic Nisin Inactive, *Appl. Envir. Microbiol*.,75: 1381 - 1387 (2009) Article

Related products

- EDAC, 520059

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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