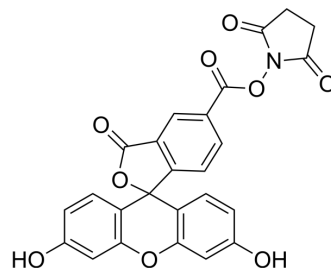


5-FAM SE

Cat. No.:	HY-15938
CAS No.:	92557-80-7
Molecular Formula:	C ₂₅ H ₁₅ NO ₉
Molecular Weight:	473.39
Target:	Fluorescent Dye
Pathway:	Others
Storage:	-20°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (52.81 mM; Need ultrasonic and warming)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.1124 mL	10.5621 mL	21.1242 mL
5 mM	0.4225 mL	2.1124 mL	4.2248 mL
10 mM	0.2112 mL	1.0562 mL	2.1124 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

5-FAM SE is a single isomer, is a fluorescent labeling reagent used for labeling peptides, proteins and nucleotides. 5-FAM SE can react with amines and can yield stable amine conjugates^{[1][2]}.

In Vitro

The capillary electrophoresis (CE)-laser-induced fluorescent (LIF) method with 5-FAM SE (5-Carboxyfluorescein N-succinimidyl ester) derivatization for the analysis of serotonin can be used to quantify luminally released 5-HT with high sensitivity. CFSE is an excellent dye for the derivatization of 5-HT^[1].

5-FAM SE (5-Carboxyfluorescein succinimidyl ester) is chosen as the labeling reagent to precapillary derivatize the two marker aminohydroxyphenylalanine (AHP) isomers produced after reductive hydrolysis of pheomelanin with hydriodic acid (HI)^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Sheng-da Qi, et al. Quantification of luminally released serotonin in rat proximal colon by capillary electrophoresis with laser-induced fluorescence detection. Anal Bioanal Chem. 2009 Apr;393(8):2059-66.

[2]. Xiao-Ling Zhang, et al. Sensitive determination of pheomelanin after 5-carboxyfluorescein succinimidyl ester precapillary derivatization and micellar electrokinetic capillary chromatography with laser-induced fluorescence detection. J Chromatogr B Analyt Technol Biomed Life Sci. 2008 Jan 1;861(1):136-9.

Caution: Product has not been fully validated for medical applications. For research use only.

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