



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

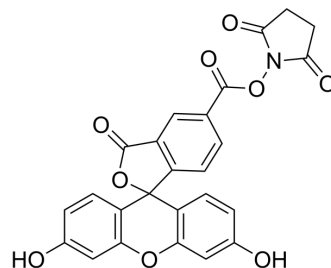
[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

## 5-FAM SE

<b>Cat. No.:</b>	HY-15938
<b>CAS No.:</b>	92557-80-7
<b>Molecular Formula:</b>	C <sub>25</sub> H <sub>15</sub> NO <sub>9</sub>
<b>Molecular Weight:</b>	473.39
<b>Target:</b>	Fluorescent Dye
<b>Pathway:</b>	Others
<b>Storage:</b>	-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<sup>[1][2]</sup>.

### 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<sup>[1]</sup>.

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)<sup>[2]</sup>.

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.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA