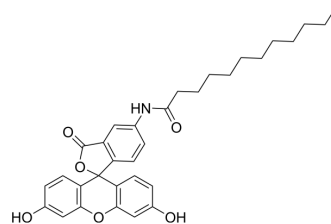


## 5-Dodecanoylaminofluorescein

Cat. No.:	HY-117401
CAS No.:	107827-77-0
Molecular Formula:	C <sub>32</sub> H <sub>35</sub> NO <sub>6</sub>
Molecular Weight:	529.62
Target:	Fluorescent Dye
Pathway:	Others
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### BIOLOGICAL ACTIVITY

#### Description

5-Dodecanoylaminofluorescein, a lipophilic fluorescent probe, is a free-fatty-acid conjugate of fluorescein. 5-Dodecanoylaminofluorescein has been used in membrane fluidity studies and the determination of critical micelle concentration of detergents. 5-Dodecanoylaminofluorescein can be also used to synthesize hydrophobic nanospheres for drug delivery<sup>[1][2][3]</sup>.

### REFERENCES

- [1]. Thorsteinsson MV, et al. 5-Dodecanoylaminofluorescein as a probe for the determination of critical micelle concentration of detergents using fluorescence anisotropy. *Anal Biochem.* 2005 May 15;340(2):220-5.
- [2]. Mochizuki H, Yamada M, Hatou S, Tsubota K. Turnover rate of tear-film lipid layer determined by fluorophotometry. *Br J Ophthalmol.* 2009 Nov;93(11):1535-8.
- [3]. Sheihet L, et al. Hydrophobic drug delivery by self-assembling triblock copolymer-derived nanospheres. *Biomacromolecules.* 2005 Sep-Oct;6(5):2726-31.

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

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