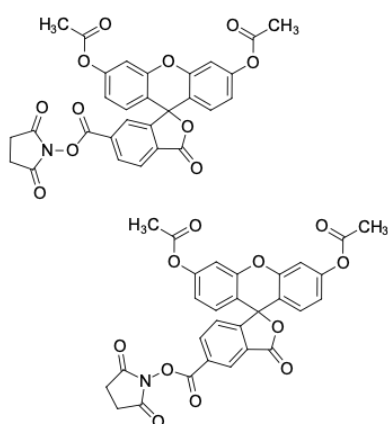


## (5,6)-FAM diacetate NHS ester

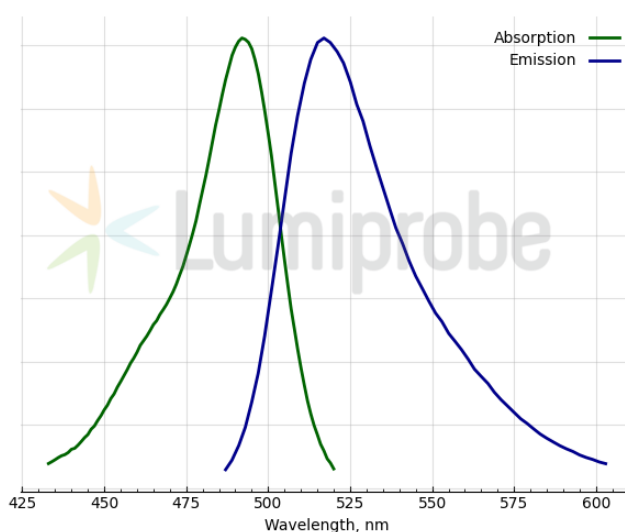
<http://www.lumiprobe.com/p/fam-da-nhs-56>

(5,6)-FAM diacetate NHS ester is a cell-permeable amine-reactive label for biomolecules.

This molecule is non-fluorescent until the acetate groups are cleaved by intracellular esterases resulting in the formation of a highly fluorescent fluorophore with emission in the green spectrum range (absorption maximum at ~492 nm, emission maximum at ~517 nm). Due to this characteristic, this product is used for tracking cells and flow cytometric evaluations and studying intracellular esterase.



**Structure of (5,6)-FAM diacetate NHS ester**



**(5,6)-FAM diacetate absorbance and emission spectra**

### General properties

|                     |   |
|---------------------|---|
| Appearance:         | white solid   |
| Molecular weight:   | 557.46  |
| CAS number:         | 150347-59-4   |
| Molecular formula:  | C <sub>29</sub> H <sub>19</sub> NO <sub>11</sub>  |
| Solubility:         | good in DMF, DMSO   |
| Quality control:    | NMR <sup>1</sup> H and <sup>31</sup> P, HPLC-MS (95%)   |
| Storage conditions: | 12 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light. Desiccate.  |
| Legal statement:    | Product is offered and sold for research purposes only. Product is not tested for safety and efficacy in food, drug, medical device, cosmetic, no express or implied authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, for humans or animals or for commercial purposes. |

### Spectral properties

|                                    |     |
|------------------------------------|-----|
| Excitation/absorption maximum, nm: | 492 |
| Emission maximum, nm:              | 517 |